

## PERSONAL INFORMATION

## Marialuisa Volta



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Sex female | Date of birth 21/11/1966 | Nationality Italian

## WORK EXPERIENCE

- |                |  |
|----------------|--|
| 2016 - present | Full Professor of Control Systems<br>Department of Mechanical and Industrial Engineering, University of Brescia, Italy   |
| 2005 – 2016    | Associated Professor<br>Department of Mechanical and Industrial Engineering, University of Brescia, Italy  |
| 1999 – 2005    | Assistant Professor<br>Department of Information Engineering, University of Brescia, Italy   |
| 2015 - present | Vice-chair of the Technical Committee TC8.3 “Modelling and Control of Environmental Systems”<br>IFAC - International Federation of Automatic Control                 |
| 2015 - present | Scientific board of B+ Labnet (Laboratory for environmental monitoring and control), University of Brescia (Italy)   |
| 2012 - present | Collegio Universitario Luigi Lucchini (University of Brescia), Cultural Board member   |
| 2014 - 2016    | FP7 project reviewer, EC DG-RTD  |
| 2009 - present | Faculty member of the Doctoral Committee in Technology for Health<br>Department of Mechanical and Industrial Engineering, University of Brescia, Italy               |
| 2014 - 2016    | Member of the SEFIRA FP7 project Advisory Board  |
| 2008 - 2015    | Member of the Technical Committee TC8.3 “Modelling and Control of Environmental Systems”<br>IFAC - International Federation of Automatic Control                     |
| 2013 -2014     | Member of the Task Force Health&Wealth - Strategic programme of the University of Brescia  |
| 2005 - 2012    | Faculty member of the Doctoral Committee in Computer Science, Engineering and Control Systems<br>Department of Information Engineering, University of Brescia, Italy |
| 2006 – 2012    | National delegate<br>UNECE - Convention on Long-range Transboundary Air Pollution, Task Force on Integrated Assessment Modelling                                     |
| 2001 – 2012    | Member of Brescia University Research Board  |

University of Brescia

## EDUCATION AND TRAINING

- 1999 Ph.D. degree in Information Engineering (EQF level 8)  
University of Brescia (Italy)
- 1994 Laurea degree in Electrical Engineering (EQF level 7)  
Politecnico di Milano (Italy)

PERSONAL SKILLS  
AND COMPETENCES.

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Organisational / managerial skills

Long and short course teaching.  
Research planning.  
Management of working teams.  
Project management and capacity planning.  
Organization of conferences and scientific committees.  
Management of scientific communication and dissemination events

Job-related skills

Systems analysis, control systems design. Air quality and Climate Change simulation and forecast models, Integrated Assessment Modeling, decision models, Decision Support Systems.

Technical skills and competences

Use of office automation and mathematical software suites. Development of optimization and forecasting algorithms. Design and implementation of environmental decision support systems.

## ADDITIONAL INFORMATION

Recent Projects Portfolio

As coordinator:

- **ATHLETIC** ( Air qualiTY and Life styles: HeaLTh Cobenefits) , University of Brescia (IT), 2016-2018.
  - **APPRAISAL** (Air Pollution Policies foR Assessment of Integrated Strategies At regional Local scales), EU FP7 308395, 2012-2015.
  - **OPERA** (Operational Pollution Emission Reduction Assessment), EU LIFE09ENV/IT/092, 2010-2013, scientific coordinator.
- Award**
- Best Environmental Life projects Award 2015 (EC DG-ENV)
  - **NINFA** (Design of a modelling system to assess the emission reduction costs in Emilia Romagna), ARPA Emilia Romagna (IT), (2010-2011)
  - **RIAT** (Regional Integrated Assessment Tool), EC JRC 384364, 2009-2010

Projects Portfolio

As P.I.

- **VALUTA** (Assessing the impact and the economic value of the Lombardia Region Air Quality Plan), ARPA Lombardia, 2014-2015.
- **QUITSAT**, Italian Space Agency, 2006-2010.

Scientific conferences

As Conference Chair:

- Integrated Assessment Modelling for the design and implementation of Air quality plans in EU Regions – FP7 APPRAISAL project final conference, EC Committee of the Regions, Bruxelles (BE), May 11th 2015.
- Air Quality, Health and Ecosystems, Conference Chair, Brescia (IT), 10 Novembre 2014
- Air Quality: Integrated Assessment Modelling for the design and implementation of Air quality plans in EU Regions, EC Committee of the Regions, Bruxelles (BE), 19 November 2013.

- Joint Workshop of the APPRAISAL FP7 project and NIAM, Brescia (IT), June 2012.
- Environment, Energy and Sustainability in the EU LIFE+ Italian projects, Brescia (IT), May 25<sup>th</sup> 2012.

As scientific committee member:

- Final conference of the OPERA EU LIFE project, Bologna (IT), September 2013
- Second conference of the OPERA EU LIFE project, European Parliament, Strasbourg (FR), November 2012
- First conference of the OPERA EU LIFE project, Bologna (IT), June 2011
- 2012 IEEE Workshop on Environmental, Energy, and Structural Monitoring Systems, Perugia (IT), September 2012,
- iEMSs2012, Leipzig (D), 1-5 July 2012, section co-chair "System Identification and Control Theory applications for Environmental Systems Management"
- IFAC PID 2012, Brescia, March 28-30 2012, National Organizing Committee
- IFAC WC 2011, session co-chair "Integration of technology and environment"
- 22nd ACCENT-GLOREAM workshop, Brescia (IT) 26-27 November 2009
- 2009 IEEE Workshop on Environmental, Energy, and Structural Monitoring Systems, Crema (IT), 25 September 2009

As invited speaker:

- "Integrated assessment for regional and local air quality policies", EC DG ENV – DG RTD, Green Week 2013. Session 6.3 - Science & evidence-based environmental policy making – the scientific input to the EU Air Policy Review, Brussels, June 2013
- EU Network of Excellence ACCENT+, ACCENT Symposium 2013, Urbino September 2013

## Publications

### Journals

- Guariso G., Maione M., Volta M (2016). A decision framework for Integrated Assessment Modelling of air quality at regional and local scale. ENVIRONMENTAL SCIENCE & POLICY, vol. 65, p. 3-12, ISSN: 1462-9011, doi: 10.1016/j.envsci.2016.05.001
- Viaene P, Belis C.A., Blond N., Bouland C., Juda-Rezler K., Karvosenoja N., Martilli A., Miranda A., Pisoni E., Volta M. (2016). Air quality integrated assessment modelling in the context of EU policy: A way forward. ENVIRONMENTAL SCIENCE & POLICY, vol. 65, p. 22-28, ISSN: 1462-9011, doi:10.1016/j.envsci.2016.05.024
- Miranda A.I, Relvas H., Viaene P., Janssen S., Brasseur O., Carnevale C., Declerck P., Maffei G., Turrini E., Volta M. (2016). Applying integrated assessment methodologies to air quality plans: Two European cases. ENVIRONMENTAL SCIENCE & POLICY, vol. 65, p. 29-38, ISSN: 1462-9011, doi: 10.1016/j.envsci.2016.04.010
- Thunis P, Miranda A., Baldasano J.M., Blond N., Douros J., Graff A., Janssen S., Juda-Rezler K., Karvosenoja N., Maffei G., Martilli A., Rasoloharimahefa M., Real E., Viaene P., Volta M., White L. (2016). Overview of current regional and local scale air quality modelling practices: Assessment and planning tools in the EU. ENVIRONMENTAL SCIENCE & POLICY, vol. 65, p. 13-21, ISSN: 1462-9011, doi: 10.1016/j.envsci.2016.03.013
- Carnevale, C., Finzi, G., Pederzoli, A., Turrini, E., Volta, M. Lazy Learning based surrogate models for air quality planning (2016) Environmental Modelling and Software, 83, pp. 47-57. DOI: 10.1016/j.envsoft.2016.04.022
- Carnevale C, Finzi G., Pederzoli A., Pisoni E., Thunis P., Turrini E., Volta M. (2015). A methodology for the evaluation of re-analyzed PM10 concentration fields: a case study over the PO Valley. AIR QUALITY, ATMOSPHERE & HEALTH, vol. 8, ISSN: 1873-9318, doi: 10.1007/s11869-014-0307-2
- Carnevale C., Finzi G., Pederzoli A., Turrini E., Volta M., Ferrari F., Gianfreda R., Maffei G. (2015). Impact of pollutant emission reductions on summertime aerosol feedbacks: A case study over the PO valley. ATMOSPHERIC ENVIRONMENT, vol. 122, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2015.09.014
- Carnevale C., Finzi G., Pederzoli A., Pisoni E., Thunis P., Turrini E., Volta M. (2014). Applying the delta tool to support the Air Quality Directive: evaluation of the TCAM chemical transport model. AIR QUALITY, ATMOSPHERE & HEALTH, vol. 7, p. 335-346, ISSN: 1873-9318, doi: 10.1007/s11869-014-0240-4
- Claudio Carnevale, Giovanna Finzi, Anna Pederzoli, Enrico Turrini, Marialuisa Volta, Giorgio Guariso, Roberta Gianfreda, Giuseppe Maffei, Enrico Pisoni, Philippe Thunis, Lioba Markl-Hummel, Nadège Blond, Alain Clappier, Vincent Dujardin, Christiane Weber, Gilles Perron (2014). Exploring trade-offs between air pollutants through an Integrated Assessment Model. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 481, p. 7-16, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2014.02.016
- Masieri S., Palazzi E., Ravegnani F., Bortoli D., Petritoli A., Premuda M., Kostadinov I., Pisoni E., Carnevale C., Volta M., Giovanelli G. (2014). Vertical Distribution of Lower Tropospheric NO2 Derived From Diffuse Solar Radiation Measurements: A Geometrical Retrieval Approach. IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol. 42, p. 4846-4857, ISSN: 0196-2892, doi: 10.1109/TGRS.2013.2285282
- G. Candiani, C. Carnevale, G. Finzi, E. Pisoni, M. Volta (2013). A comparison of reanalysis techniques: Applying optimal interpolation and Ensemble Kalman Filtering to improve air quality monitoring at mesoscale. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 458-460, p. 7-14, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2013.03.089
- Pernigotti D, Thunis P, Cuvelier C, Georgieva E, Gsella A, De Meij A, Pirovano G, Balzarini A, Riva GM, Carnevale C, Pisoni E, Volta M, Bessagnet B, Kerschbaumer A, Viaene P, De Ridder K, Nyiri A, Wind P (2013). POMI: A model inter-comparison exercise over the Po Valley. AIR QUALITY, ATMOSPHERE & HEALTH, vol. 6, p. 701-715, ISSN: 1873-9318, doi: 10.1007/s11869-013-0211-1

- C. Carnevale, G. Finzi, E. Pisoni, M. Volta, G. Guariso, R. Gianfreda, G. Maffei, P. Thunis, L. White, G. Triacchini (2012). An integrated assessment tool to define effective air quality policies at regional scale. ENVIRONMENTAL MODELLING & SOFTWARE, vol. 38, p. 306-315, ISSN: 1364-8152, doi: 10.1016/j.envsoft.2012.07.004
- C. Carnevale, G. Finzi, E. Pisoni, M. Volta, F. Wagner (2012). Defining a nonlinear control problem to reduce particulate matter population exposure. ATMOSPHERIC ENVIRONMENT, vol. 55, p. 410-416, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2012.03.033
- C. Carnevale, G. Finzi, E. Pisoni, M. Volta, P. Kishcha, P. Alpert (2012). Integrating Saharan dust forecasts into a regional chemical transport model: a case study over Northern Italy. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 417-418, p. 224-231, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2011.12.031
- Claudio Carnevale, Giovanna Finzi, Giorgio Guariso, Enrico Pisoni, Marialuisa Volta (2012). Surrogate models to compute optimal air quality planning policies at a regional scale. ENVIRONMENTAL MODELLING & SOFTWARE, vol. 34, p. 44-50, ISSN: 1364-8152, doi: 10.1016/j.envsoft.2011.04.007
- C. Carnevale, G. Finzi, E. Pisoni, P. Thunis, M. Volta (2012). The impact of thermodynamic module in the CTM performances. ATMOSPHERIC ENVIRONMENT, vol. 61, p. 652-660, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2012.06.058
- V. Singh, C. Carnevale, G. Finzi, E. Pisoni, M. Volta (2011). A cokriging based approach to reconstruct air pollution maps, processing measurement station concentrations and deterministic model simulations. ENVIRONMENTAL MODELLING & SOFTWARE, vol. 26, p. 778-786, ISSN: 1364-8152, doi: 10.1016/j.envsoft.2010.11.014
- C. Carnevale, G. Finzi, E. Pisoni, V. Singh, M. Volta (2011). An Integrated Air Quality Forecast System for a Metropolitan Area. JOURNAL OF ENVIRONMENTAL MONITORING, vol. 13, p. 3437-3447, ISSN: 1464-0325, doi: 10.1039/C1EM10303B
- Petricoli A., E. Palazzi, G. Giovanelli, W. Di Nicolantonio, G. Ballista, C. Carnevale, G. Finzi, E. Pisoni, M. Volta (2011). Combined use of space-borne observations of NO<sub>2</sub> and regional CTM model for air quality monitoring in Northern Italy. INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION, vol. 47, p. 158-166, ISSN: 0957-4352, doi: 10.1504/IJEP.2011.047332
- Carnevale C., Finzi G., Mannarini G., Pisoni E., Volta M. (2011). Comparing mesoscale chemistry-transport model and remote-sensed Aerosol Optical Depth. ATMOSPHERIC ENVIRONMENT, vol. 45, p. 289-295, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2010.10.029
- C. Carnevale, G. Finzi, E. Pisoni, M. Volta (2011). Minimizing external indirect health costs due to aerosol population exposure: a case study from Northern Italy. JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol. 92, p. 3136-3142, ISSN: 0301-4797, doi: 10.1016/j.jenvman.2011.08.009
- Carnevale C., Pisoni E., Volta M. (2010). A non-linear analysis to detect the origin of PM<sub>10</sub> concentrations in Northern Italy. Science of the Total Environment. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 409, p. 182-191, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2010.09.038
- PISONI E, CARNEVALE C, M VOLTA (2010). Sensitivity to spatial resolution of modeling systems designing air quality control policies. ENVIRONMENTAL MODELLING & SOFTWARE, vol. 25, p. 66-73, ISSN: 1364-8152, doi: 10.1016/j.envsoft.2009.07.009
- DI NICOLANTONIO W, CACCIARI A, PETRITOLI A, CARNEVALE C, PISONI E, M. VOLTA, STOCCHI P, CURCI G, BOLZACCHINI E, FERRERO L, ANANASSO C, TOMASI C (2009). MODIS and OMI satellite observations supporting air quality monitoring. RADIATION PROTECTION DOSIMETRY, vol. 137, p. 280-287, ISSN: 0144-8420, doi: 10.1093/rpd/ncp231
- PISONI E, M. VOLTA (2009). Modeling Pareto efficient PM<sub>10</sub> control policies in Northern Italy to reduce health effects. ATMOSPHERIC ENVIRONMENT, vol. 43, p. 3243-3248, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2009.03.031
- PISONI E, CARNEVALE C, M. VOLTA (2009). Multi-criteria analysis for PM<sub>10</sub> planning. ATMOSPHERIC ENVIRONMENT, vol. 43, p. 4833-4842, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2008.07.049
- CARNEVALE C, FINZI G, PISONI E, M. VOLTA (2009). Neuro-fuzzy and neural network systems for air quality control. ATMOSPHERIC ENVIRONMENT, vol. 43, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2008.07.064
- CARNEVALE C, PISONI E, VOLTA M (2008). A multi-objective nonlinear optimization approach to design effective air quality control policies. AUTOMATICA, vol. 44, p. 1632-1641, ISSN: 0005-1098, doi: 10.1016/j.automatica.2008.04.001
- PISONI E, PASTOR F, M. VOLTA (2008). Artificial Neural Networks to reconstruct incomplete satellite data: application to the Mediterranean Sea Surface Temperature. NONLINEAR PROCESSES IN GEOPHYSICS, vol. 15, p. 61-70, ISSN: 1023-5809
- CARNEVALE C, DECANINI E, VOLTA M (2008). Design and validation of a multiphase 3D model to simulate tropospheric pollution. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 390, p. 166-176, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2007.09.017
- CARNEVALE C, FINZI G, VOLTA M (2008). Evaluation by TCAM Model of Physical-Chemical Properties of Aerosol in Northern Italy. ENVIRONMENTAL MODELING & ASSESSMENT, vol. 13, ISSN: 1420-2026, doi: 10.1007/s10666-007-9102-x
- GABUSI V, PISONI E, M. VOLTA (2008). Factor separation in air quality simulations. ECOLOGICAL MODELLING, vol. 218, p. 383-392, ISSN: 0304-3800, doi: 10.1016/j.ecolmodel.2008.07.030
- CARNEVALE C, FINZI G, PISONI E, VOLTA M (2008). Modelling assessment of PM<sub>10</sub> exposure control policies in Northern Italy. ECOLOGICAL MODELLING, vol. 217, ISSN: 0304-3800, doi: 10.1016/j.ecolmodel.2008.06.005

- C. CARNEVALE, G. FINZI, E. PISONI, M. VOLTA (2008). Neural network models for tropospheric ozone control. *AUTOMAZIONE E STRUMENTAZIONE*, vol. LVI, ISSN: 0005-1284
- ANGELINO E, BEDOGNI M, CARNEVALE C, FINZI G, MINGUZZI E, PERONI E, PERTOT C, PIROVANO G, VOLTA M (2008). PM10 chemical model simulations over Northern Italy in the framework of CityDelta Exercise. *ENVIRONMENTAL MODELING & ASSESSMENT*, vol. 13, ISSN: 1420-2026
- CUVELIER C, THUNIS P, VAUTARD R, AMANN M, BESSAGNET B, BEDOGNI M, BERKOWICZ R, BRANDT J, BROCHETON F, BUILTJES P, CARNEVALE C, DENBY B, DOUROS J, GRAF A, HELLMUTH O, HODZIC A, HONORE C, JONSON J, KERSCHBAUMER A, DE LEEUW F, MINGUZZI E, MOUSSIOPOULOS N, PERTOT C, PEUCH V, PIROVANO G, ROUIL L, SAUTER F, SCHAAP M, STERN R, TARRASON L, VIGNATI E, VOLTA M, WHITE L, WIND P, ZUBER A (2007). CityDelta: A model intercomparison study to explore the impact of emission reductions in European cities in 2010. *ATMOSPHERIC ENVIRONMENT*, vol. 41, p. 189-207, ISSN: 1352-2310
- CARNEVALE C, PISONI E, VOLTA M (2007). Selecting effective ozone exposure control policies solving a two-objective problem. *ECOLOGICAL MODELLING*, vol. 204, p. 93-103, ISSN: 0304-3800
- VOLTA M., FINZI G (2006). GAMES, a comprehensive GAS Aerosol Modelling Evaluation System. *ENVIRONMENTAL MODELLING & SOFTWARE*, vol. 21, ISSN: 1364-8152
- CARNEVALE C, GABUSI V, M. VOLTA (2006). POEM-PM: an emission model for secondary pollution control scenarios. *ENVIRONMENTAL MODELLING & SOFTWARE*, vol. 21, p. 320-329, ISSN: 1364-8152, doi: 10.1016/j.envsoft.2004.11.003
- GABUSI V, M. VOLTA (2005). A methodology for seasonal photochemical model simulation assessment. *INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION*, vol. 24, p. 11-21, ISSN: 0957-4352
- SONCINI-SESSA R, M. VOLTA (2005). One year long runoff forecast by a single snow pack evaluation. *HYDROLOGICAL PROCESSES*, vol. 19, p. 1419-1430, ISSN: 0885-6087, doi: 10.1002/hyp.5580
- GABUSI V, M. VOLTA (2005). Seasonal Modelling Assessment of Ozone Sensitivity to Precursors in Northern Italy. *ATMOSPHERIC ENVIRONMENT*, vol. 39, p. 2795-2804, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2004.07.041
- CARNEVALE C., G. FINZI, GABUSI V., VOLTA M. (2004). Modelli per il controllo dell'inquinamento fotochimico. *AUTOMAZIONE E STRUMENTAZIONE*, vol. LII(2), ISSN: 0005-1284
- GUARISO G, PIROVANO G, M. VOLTA (2004). Multi-objective analysis of ground-level ozone concentration control. *JOURNAL OF ENVIRONMENTAL MANAGEMENT*, vol. 71, p. 25-33, ISSN: 0301-4797, doi: 10.1016/j.jenvman.2003.12.015
- DECANINI E, POLA M, POLLA MATTIOT F, M. VOLTA (2003). Application of REMSAD and GAMES modeling systems on a particulate matter and ozone episode in Milan metropolitan area. *INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION*, vol. 20, p. 230-241, ISSN: 0957-4352
- DECANINI E., M. VOLTA (2003). Application to Northern Italy of a new modelling system for air quality planning: a comparison between different chemical mechanisms. *INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION*, vol. 20, p. 85-95, ISSN: 0957-4352
- CARNEVALE C, M. VOLTA (2003). Chemical and size characterization of PM road traffic emission: profile estimation for multiphase models. *JOURNAL OF AEROSOL SCIENCE*, vol. 34 (S2), p. S1349-S1350, ISSN: 0021-8502
- DECANINI E, M. VOLTA (2003). The evaluation of secondary aerosol in Milan metropolitan area by means of GAMES modelling system. *JOURNAL OF AEROSOL SCIENCE*, vol. 34 (S2), p. S1013-S1014, ISSN: 0021-8502
- G. FINZI, SILIBELLO C., VOLTA M. (2000). Evaluation of urban pollution abatement strategies by a photochemical dispersion model. *INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION*, vol. 14, ISSN: 0957-4352
- SCHLINK U, M. VOLTA (2000). Grey Box and Component Models to Forecast Ozone Episodes: A Comparison Study. *ENVIRONMENTAL MONITORING AND ASSESSMENT*, vol. 65, p. 313-321, ISSN: 0167-6369

### **Book chapters**

- Guariso G., Volta M. (in press) Air quality in Europe: today and tomorrow. In Guariso G., Volta M. Eds. *Air quality integrated assessment: a European perspective*. SpringerBriefs in Applied Sciences. ISBN: 978-3-319-33348-9
- Blond N., C. Carnevale, J. Douros, G. Guariso, S. Janssen, G. Maffei, A. Martilli, E. Pisoni, E. Real, E. Turrini, P. Viaene, M. Volta (in press) A framework for Integrated Assessment Modelling. In Guariso G., Volta M. Eds. *Air quality integrated assessment: a European perspective*. SpringerBriefs in Applied Sciences. ISBN: 978-3-319-33348-9
- Belis C., J. Baldasano, N. Blond, C. Bouland, J. Buekers, C. Carnevale, A. Cherubini, A. Clappier, E. De Saeger, J. Douros, G. Finzi, E. Fragkou, C. Gama, A. Graff, G. Guariso, S. Janssen, K. Juda-Rezler, N. Karvosenoja, G. Maffei, A. Martilli, S. Mills, A.I. Miranda, Z. Nahorski, E. Pisoni, J.-L. Ponche, M. Rasoloharimahefa, E. Real, M. Reizer, H. Relvas, D. Roncolato, M. Tainio, P. Thunis, P. Viaene, M. Volta, L. White (in press) Current European AQ planning at regional and local scale. In Guariso G., Volta M. Eds. *Air quality integrated assessment: a European perspective*. SpringerBriefs in Applied Sciences. ISBN: 978-3-319-33348-9
- Belis C., N. Blond, C. Bouland, C. Carnevale, A. Clappier, J. Douros, E. Fragkou, G. Guariso, A.I. Miranda, Z. Nahorski, E. Pisoni, J.-L. Ponche, P. Thunis, P. Viaene, M. Volta (in press) Strengths and weaknesses of the current EU situation. In Guariso G., Volta M. Eds. *Air quality integrated assessment: a European perspective*. SpringerBriefs in Applied Sciences. ISBN: 978-3-319-33348-9
- Carnevale C., F. Ferrari, R. Gianfreda, G. Guariso, S. Janssen, G. Maffei, A.I. Miranda, H. Relvas, P. Thunis, E.



- Turrini, P. Viaene, P. Valkering, M. Volta (in press) Two illustrative examples: Brussels and Porto. In Guariso G., Volta M. Eds. Air quality integrated assessment: a European perspective. SpringerBriefs in Applied Sciences. ISBN: 978-3-319-33348-9
- Guariso G., Volta M. (in press) A way foreword. In Guariso G., Volta M. Eds. Air quality integrated assessment: a European perspective. SpringerBriefs in Applied Sciences. ISBN: 978-3-319-33348-9
- Rainer F., Reiss S., Fowler D., Amann M., Volta M., Thunis P. (2013). Integrated assessment. In: D. Foulter et al.. Research findings in support of the Eu Air Quality Review. p. 84-89, European Union
- Candiani G, Carnevale C, Pisoni E, Volta M (2010). Assimilation of chemical ground measurements in air quality modeling. In: Lirkov I; Margenov S; Wasniewsky J. Lecture Notes in Computer Science. vol. 5910, p. 165-172, Springer
- C. Carnevale, G. Finzi, E. Pisoni, V. Singh, M. Volta (2009). PM10 Emission Control Policies Evaluation by Means of TCAM Model. In: SANDRO FUZZI;MICHELA MAIONE EDITORS. Atmospheric composition Change - Causes and Consequences - Local to Global. Aracne editrice, ISBN: 9788854822689
- Carnevale C, Pisoni E, Volta M (2009). Policy design to reduce PM10 long-term exposure: an application over the northern Italy domain. In: Maione M, Fuzzi S. Atmospheric composition Change - Causes and Consequences - Local to Global. p. 92-99, Aracne Editrice S.r.l., ISBN: 9788854822689
- Carnevale C, Pisoni E, Volta M (2008). A multi-objective problem to select optimal PM10 control policies.. In: C. BORREGO; MIRANDA A.I.. In Air pollution modelling and its application XIX. p. 715-716, SPRINGER, ISBN: 9781402084515
- G. Finzi, C.Carnevale, E. Pisoni, M.Volta (2008). Overview of existing integrated (off-line and on-line)mesoscale meteorological and chemical transport modelling systems in Europe. In: Joint report of COST Action 728 and GURME, WMO TD No. 1427. vol. GAW Report No. 177, WMO TD No. 1427, p. 45-49
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