

List of Publications

1. Di Bernardino A, Palusci O, Pini A, Leuzzi G, Cacciani M, Pelliccioni A, Monti P (2021) Air Circulation in Urban Areas. In Palme M & Salvati A (Editors), *Urban Microclimate Modelling for Comfort and Energy Studies*, pp: 195-221. Springer Nature Switzerland.
2. Conigliaro E, Monti P, Leuzzi G, Cantelli A (2021) A three-dimensional urban canopy model for mesoscale atmospheric simulations and its comparison with a two-dimensional urban canopy model in an idealized case. *Urban Climate* **37**, 100831.
3. Pelliccioni A, Monti P, et al. (2020) Integrated Evaluation of Indoor Particulate Exposure: The VIEPI Project. *Sustainability* **12**, 9758.
4. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2020) Eulerian and Lagrangian time scales of the turbulence above staggered arrays of cubical obstacles. *Environmental Fluid Mechanics* **20**, 987-1005.
5. Pini A, Musa I, Monti P, Leuzzi G, Di Bernardino A, Cattani G, Di Menno Di Bucchianico A, Gherardi M, Pelliccioni A (2020) Numerical and experimental analysis of flow and particulate matter dispersion in indoor environment. IOP Conference Series: Earth and Environmental Science 489, Article number 012007.
6. Pini A, Grandoni L, Leuzzi G, Monti P, Di Bernardino A, Pelliccioni A, Gherardi M, Cattani G, Di Menno Di Bucchianico A (2020) A simplified analytical model of ultrafine particle concentration within an indoor environment. IOP Conference Series: Earth and Environmental Science **489**, Article number 012009.
7. De Serio F, Armenio E, Ben Meftah M, Capasso G, Corbelli V, De Padova D, De Pascalis F, Di Bernardino A, Leuzzi G, Monti P, Mossa M, Pini A, Velardo R (2020) Detecting sensitive areas in confined shallow basins. *Environmental Modelling and Software* **126**, 104659.
8. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2020) Turbulent Schmidt number measurements over three-dimensional cubic arrays. *Boundary-Layer Meteorology* **174**, 231-250.
9. Pelliccioni A, Tofful L, Catrambone M, et al. (2019) The integrated evaluation of indoor particulate exposure (viepi) project: main goals and campaign description. Proc. *19th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 3-6 June, Bruges, Belgium.
10. Pini A, Musa I, Di Bernardino A, et al. (2019) Analysis of the exchange of pollutant and momentum between outdoor and indoor environments. The case of a classroom in the framework of the VIEPI project. Proc. *19th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 3-6 June, Bruges, Belgium.
11. Di Bernardino A, Pini A, Nardecchia F, Conigliaro E, Monti P, Leuzzi G, Pelliccioni A (2019) Evaluation of ansys-fluent model against field data in the framework of the VIEPI project. Proc. *19th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 3-6 June, Bruges, Belgium.
12. Di Bernardino A, Monti P, Leuzzi G, Sammartino F, Querzoli G (2020) Turbulent Schmidt number estimate over urban canopies. Proc. *19th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 3-6 June, Bruges, Belgium.
13. Pini A, Tomassetti P, Matiddi M, de Lucia GM, Bello P, Zazzini S, Leuzzi G, Monti P (2019) Microplastic detection and Lagrangian modelling in the Tyrrhenian Sea. Proceedings of *2019 IMEKO TC-19 International Workshop on Metrology for the Sea*, October 3-5, Genoa, Italy.
14. Zazzini S, De Dominicis M, Pini A, Leuzzi G, Monti P, O'Hara Murray R, Li X (2019) Turbulence changes due to a tidal stream turbine operation in the Pentland Firth (Scotland, UK). Proceedings of *2019 IMEKO TC-19 International Workshop on Metrology for the Sea*, October 3-5, Genoa, Italy.
15. Salvati A, Monti P, Coch Roura H, Cecere C (2019) Climatic performance of urban textures: analysis tools for a Mediterranean urban context. *Energy and Building* **185**, 162-179.
16. Di Bernardino A, Pelliccioni A, Monti P, Leuzzi G, Querzoli G (2018) Evaluation of parametric laws for computing the wind speed profile in the urban boundary layer. comparison to two-dimensional building water channel experiment. *International Journal of Environment and Pollution* **64**, 4-21.
17. Pini A, Leuzzi G, Monti P, Manfredi M (2018) Modelling of short-term dispersion in the sea surface layer. Proceedings of *2018 IEEE International Workshop on Metrology for the Sea*, 8-10 Ottobre, Bari, Italia.

18. Pini A, Tomassetti P, Matiddi M, de Lucia GA, Zampetti G, Lattanzi C, Leuzzi G, Monti P (2018) Microplastic samplings and inverse trajectory recognition in the Mediterranean Sea. *Proceedings of 2018 IEEE International Workshop on Metrology for the Sea*, 8-10 Ottobre, Bari, Italia.
19. Ravanelli R, Nascetti A, Cirigliano RV, Di Rico C, Leuzzi G, Monti P, Crespi M (2018) Monitoring the impact of land cover change on surface urban heat island through Google Earth Engine: proposal of a global methodology, first applications and problems. *Remote Sensing* **10**, 1488.
20. Pini A, Leuzzi G, Monti P (2018) Modellazione della dispersione di inquinanti galleggianti nella fase iniziale del rilascio. *Atti del XXXVI Congresso Nazionale di Idraulica e Costruzioni Idrauliche*, 12-14 Settembre, Ancona, Italia. ISBN: 9788894379907.
21. Di Bernardino A, Mastrangelo M, Monti P, Leuzzi G, Querzoli G (2018) Analisi sperimentale del flusso e della dispersione di traccianti passivi in canopie urbane tridimensionali. *Atti del XXXVI Congresso Nazionale di Idraulica e Costruzioni Idrauliche*, 12-14 Settembre, Ancona, Italia. ISBN: 9788894379907.
22. Conigliaro E, Di Bernardino A, Monti P, Leuzzi G (2018) Simulazione numerica dell'evento alluvionale nell'area romana del dicembre 2008. *Atti del XXXVI Congresso Nazionale di Idraulica e Costruzioni Idrauliche*, 12-14 Settembre, Ancona, Italia. ISBN: 9788894379907.
23. Pini A, Leuzzi G, Monti P (2018) Statistical analysis of turbulent dispersion in the sea surface layer based on satellite-tracked drifter data. *International Journal of Offshore and Polar Engineering* **28**, 240-247.
24. Nardecchia F, Di Bernardino A, Pagliaro F, Monti P, Leuzzi G, Gugliermetti L (2018) CFD analysis of urban canopy flows employing the V2F model: impact of different aspect ratios and relative heights. *Advances in Meteorology* **2018**, Article ID 2189234, 16pp.
25. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2018) Pollutant fluxes in two-dimensional street canyons. *Urban Climate* **24**, 80-93.
26. Ravanelli R, Nascetti A, Cirigliano RV, Di Rico C, Monti P, Crespi M (2018) Monitoring urban heat island through Google Earth Engine: potentialities and difficulties in different cities of the united states. *Proceedings of ISPRS, Development, Technologies and Applications in Remote Sensing*, May 7-10, Beijing, China.
27. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2017) Pollutant removal mechanism in two-dimensional street canyons: a laboratory study. *International Journal of Environment and Pollution* **62**, Nos 2/3/4, 291-304.
28. Di Bernardino A, Monti P, Leuzzi G, Sammartino F, Ferrari S (2017) Experimental investigation of turbulence and dispersion around an isolated cubic building. *Proc. 18th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 9-12 October, Bologna, Italy.
29. Di Bernardino A, Monti P, Leuzzi G, Sammartino F, Querzoli G (2017) Lagrangian time scales of the turbulence above two-dimensional canopies. *Proc. 18th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 9-12 October, Bologna, Italy.
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32. Pini A, Grandoni L, Maicu F, De Pascalis F, Leuzzi G, Monti P (2017) Evaluation of Lagrangian time scales and turbulent diffusivities by GPS equipped drifters. *Proceedings of 2017 EESMS Workshop on Environmental, Energy, and Structural Monitoring Systems*, July 24-25, Milan, Italy. ISBN 978-1-5386-2816-4.
33. Palusci O, Montazeri H, Blocken B, Monti P, Cecere C (2017) Numerical modeling of urban microclimate in a real compact area in the Mediterranean region: impact of urban morphology. *7th European and African Conference on Wind Engineering*, 4-7 July 2017, Liege, Belgium.
34. Pini A, Leuzzi G, Monti P (2017) Evaluation of horizontal diffusivity in the sea surface layer. *Proceedings of Twenty-seventh (2017) International Ocean and Polar Engineering Conference*. San Francisco, CA, USA, June 25-30. ISBN 978-1-880653-97-5; ISSN 1098-6189.
35. Valerio G, Cantelli A, Monti P, Leuzzi G (2017) A modeling approach to identify the effective forcing exerted by wind on a prealpine lake surrounded by a complex topography. *Water*

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37. Amicarelli A, Leuzzi G, Monti P, Alessandrini S, Ferrero E (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**, N. 4, 715-753.
38. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2016) Turbulence properties of the urban boundary layer. *Atti del XXXV Congresso Nazionale di Idraulica e Costruzioni Idrauliche*, 14-16 Settembre, Bologna, Italia.
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48. Amicarelli A., Leuzzi G, Monti P, Pepe N, Pirovano G (2015) Lagrangian micromixing modelling of reactive scalar statistics: surface pollutant sources in decaying grid turbulence. *International Journal of Environment and Pollution* **58**, N. 4, 251-267.
49. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2015) On the effect of the aspect ratio on flow and turbulence over a two-dimensional street canyon. *International Journal of Environment and Pollution* **58**, Nos. 1/2, 27-38.
50. Cantelli A, Monti P, Leuzzi G (2015) Numerical study of the urban geometrical representation impact in a surface energy budget model. *Environmental Fluid Mechanics* **15**, 251-273.
51. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2015) Water-channel study of flow and turbulence past a 2D array of obstacles. *Boundary-Layer Meteorology* **155**, 73-85.
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55. Cantelli A, Monti P, Leuzzi G (2014) Development and integration of a subgrid urban surface scheme in a limited area model. *International Journal of Environment and Pollution* **55**, Nos.

1/2/3/4, 230-237.

56. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2014) A laboratory investigation of flow and turbulence over a two-dimensional urban canopy. *Atti del 16th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 8-11 September, Varna, Bulgaria.
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58. Di Bernardino A, Monti P, Leuzzi G, Querzoli G, Iannetta S (2014) Simulazione di laboratorio di canopie urbane bidimensionali. *Atti del XXXIV Congresso Nazionale di Idraulica e Costruzioni Idrauliche*, 7-10 Settembre, Bari, Italia.
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63. Leuzzi G, Monti P, Panebianco A, Molinaro A (2014) Numerical simulation of oil spill blowout episodes in the Adriatic Sea. *Proc. Of the 7th Int. Symp. On Environmental Hydraulics*, 7-9 January, Singapore.
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81. Pelliccioni A, Monti P, Gariazzo C, Leuzzi G (2011) Wind profiles in urban area. Atti del 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, 2-6 October, Kos, Greece.
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