

# Lorenzo Giovannini

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

800  
citations

516215

16  
h-index

525886

27  
g-index

50  
all docs

50  
docs citations

50  
times ranked

879  
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-segregated aerosol fluxes, deposition velocities, and chemical composition in an Alpine valley. <i>Atmospheric Research</i> , 2022, 268, 105995.	1.8	4
2	Field calibration of a low-cost sensors network to assess traffic-related air pollution along the Brenner highway. <i>Atmospheric Environment</i> , 2022, 275, 119008.	1.9	10
3	A New K <sup>ε</sup> Turbulence Parameterization for Mesoscale Meteorological Models. <i>Monthly Weather Review</i> , 2022, 150, 2157-2174.	0.5	1
4	Using remote sensing and numerical modelling to quantify a turbidity discharge event in Lake Garda. <i>Journal of Limnology</i> , 2021, 80, .	0.3	5
5	Meteorological normalization of NO <sub>2</sub> concentrations in the Province of Bolzano (Italian Alps). <i>Atmospheric Environment</i> , 2021, 246, 118048.	1.9	14
6	Observed snow depth trends in the European Alps: 1971 to 2019. <i>Cryosphere</i> , 2021, 15, 1343-1382.	1.5	87
7	Assessing the Ability of WRF+BEPM in Reproducing the Wintertime Building Energy Consumption of an Italian Alpine City. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033652.	1.2	15
8	The Bolzano Tracer Experiment (BTEX). <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E966-E989.	1.7	1
9	Multi-model convection-resolving simulations of the October 2018 Vaia storm over Northeastern Italy. <i>Atmospheric Research</i> , 2021, 253, 105455.	1.8	21
10	Multi-scale evaluation of a 3D lake model forced by an atmospheric model against standard monitoring data. <i>Environmental Modelling and Software</i> , 2021, 139, 105017.	1.9	14
11	Verona Adapt. Modelling as a Planning Instrument: Applying a Climate-Responsive Approach in Verona, Italy. <i>Sustainability</i> , 2021, 13, 6851.	1.6	2
12	Exploring the Effects of Rooftop Mitigation Strategies on Urban Temperatures and Energy Consumption. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035002.	1.2	17
13	Sensitivity analysis of urban microclimatic conditions and building energy consumption on urban parameters by means of idealized numerical simulations. <i>Urban Climate</i> , 2020, 34, 100677.	2.4	13
14	Atmospheric Pollutant Dispersion over Complex Terrain: Challenges and Needs for Improving Air Quality Measurements and Modeling. <i>Atmosphere</i> , 2020, 11, 646.	1.0	41
15	Evaluating the performance of a novel WUDAPT averaging technique to define urban morphology with mesoscale models. <i>Urban Climate</i> , 2020, 31, 100584.	2.4	34
16	A dataset of tracer concentrations and meteorological observations from the Bolzano Tracer Experiment (BTEX) to characterize pollutant dispersion processes in an Alpine valley. <i>Earth System Science Data</i> , 2020, 12, 277-291.	3.7	7
17	Turbulence parameterizations for dispersion in sub-kilometer horizontally non-homogeneous flows. <i>Atmospheric Research</i> , 2019, 228, 122-136.	1.8	22
18	A method to determine the characteristic time scales of quasi-isotropic surface layer turbulence over complex terrain: A case study in the Adige Valley (Italian Alps). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 495-512.	1.0	15

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19	Challenges in the application of a WRF/Urban-TRNSYS model chain for estimating the cooling demand of buildings: A case study in Bolzano (Italy). <i>Science and Technology for the Built Environment</i> , 2018, 24, 529-544.	0.8	11
20	Meteorological Applications Benefiting from an Improved Understanding of Atmospheric Exchange Processes over Mountains. <i>Atmosphere</i> , 2018, 9, 371.	1.0	27
21	Wind variability and Earth's rotation as drivers of transport in a deep, elongated subalpine lake: The case of Lake Garda. <i>Journal of Limnology</i> , 2018, 77, .	0.3	18
22	Estimating Hourly Beam and Diffuse Solar Radiation in an Alpine Valley: A Critical Assessment of Decomposition Models. <i>Atmosphere</i> , 2018, 9, 117.	1.0	13
23	A Refinement of the McMillen (1988) Recursive Digital Filter for the Analysis of Atmospheric Turbulence. <i>Boundary-Layer Meteorology</i> , 2018, 168, 517-523.	1.2	6
24	The thermally driven diurnal wind system of the Adige Valley in the Italian Alps. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2389-2402.	1.0	45
25	Optimization of Noah and Noah_MP WRF Land Surface Schemes in Snow-Melting Conditions over Complex Terrain. <i>Monthly Weather Review</i> , 2017, 145, 4727-4745.	0.5	39
26	Large eddy simulation (LES) of wind-driven circulation in a peri-alpine lake: Detection of turbulent structures and implications of a complex surrounding orography. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4704-4722.	1.0	12
27	The relation between circulation types and regional Alpine climate. Part II: the dependence of the predictive skill on the vertical level of the classification for Trentino. <i>International Journal of Climatology</i> , 2016, 36, 2189-2199.	1.5	2
28	The relation between circulation types and regional Alpine climate. Part I: synoptic climatology of Trentino. <i>International Journal of Climatology</i> , 2015, 35, 4655-4672.	1.5	11
29	Climatological characteristics of the Ora del Garda wind in the Alps. <i>International Journal of Climatology</i> , 2015, 35, 4103-4115.	1.5	26
30	Assessing the air quality impact of nitrogen oxides and benzene from road traffic and domestic heating and the associated cancer risk in an urban area of Verona (Italy). <i>Atmospheric Environment</i> , 2015, 120, 234-243.	1.9	50
31	Atmospheric dispersion modelling with AERMOD for comparative impact assessment of different pollutant emission sources in an Alpine valley. <i>WIT Transactions on Ecology and the Environment</i> , 2015, .	0.0	7
32	Sensitivity of Simulated Wind Speed to Spatial Resolution over Complex Terrain. <i>Energy Procedia</i> , 2014, 59, 323-329.	1.8	39
33	Effects of changes in observational sites position and surrounding urbanisation on the temperature time series of the city of Trento. <i>Urban Climate</i> , 2014, 10, 509-529.	2.4	4
34	Analysis of the diurnal development of a lake-valley circulation in the Alps based on airborne and surface measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9771-9786.	1.9	20
35	Numerical simulations of boundary-layer processes and urban-induced alterations in an Alpine valley. <i>International Journal of Climatology</i> , 2014, 34, 1111-1131.	1.5	64
36	A Solar Atlas for the Trentino Region in the Alps: Quality Control of Surface Radiation Data. <i>Energy Procedia</i> , 2014, 59, 336-343.	1.8	8

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37	Characterization of the Thermal Structure inside an Urban Canyon: Field Measurements and Validation of a Simple Model. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 64-81.	0.6	27
38	Analysis of the Urban Thermal Fingerprint of the City of Trento in the Alps. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 1145-1162.	0.6	46