Lorenzo Giovannini

List of Publications by Year
in descending order

38	800	516215 16	525886 27
papers	citations	h-index	g-index

50	50	50	879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observed snow depth trends in the European Alps: 1971 to 2019. Cryosphere, 2021, 15, 1343-1382.	1.5	87
2	Numerical simulations of boundaryâ€layer processes and urbanâ€induced alterations in an Alpine valley. International Journal of Climatology, 2014, 34, 1111-1131.	1.5	64
3	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). Atmospheric Environment, 2015, 120, 234-243.	1.9	50
4	Analysis of the Urban Thermal Fingerprint of the City of Trento in the Alps. Journal of Applied Meteorology and Climatology, 2011, 50, 1145-1162.	0.6	46
5	The thermally driven diurnal wind system of the Adige Valley in the Italian Alps. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2389-2402.	1.0	45
6	Atmospheric Pollutant Dispersion over Complex Terrain: Challenges and Needs for Improving Air Quality Measurements and Modeling. Atmosphere, 2020, 11, 646.	1.0	41
7	Sensitivity of Simulated Wind Speed to Spatial Resolution over Complex Terrain. Energy Procedia, 2014, 59, 323-329.	1.8	39
8	Optimization of Noah and Noah_MP WRF Land Surface Schemes in Snow-Melting Conditions over Complex Terrain. Monthly Weather Review, 2017, 145, 4727-4745.	0.5	39
9	Evaluating the performance of a novel WUDAPT averaging technique to define urban morphology with mesoscale models. Urban Climate, 2020, 31, 100584.	2.4	34
10	Characterization of the Thermal Structure inside an Urban Canyon: Field Measurements and Validation of a Simple Model. Journal of Applied Meteorology and Climatology, 2013, 52, 64-81.	0.6	27
11	Meteorological Applications Benefiting from an Improved Understanding of Atmospheric Exchange Processes over Mountains. Atmosphere, 2018, 9, 371.	1.0	27
12	Climatological characteristics of the Ora del Garda wind in the Alps. International Journal of Climatology, 2015, 35, 4103-4115.	1.5	26
13	Turbulence parameterizations for dispersion in sub-kilometer horizontally non-homogeneous flows. Atmospheric Research, 2019, 228, 122-136.	1.8	22
14	Multi-model convection-resolving simulations of the October 2018 Vaia storm over Northeastern Italy. Atmospheric Research, 2021, 253, 105455.	1.8	21
15	Analysis of the diurnal development of a lake-valley circulation in the Alps based on airborne and surface measurements. Atmospheric Chemistry and Physics, 2014, 14, 9771-9786.	1.9	20
16	Wind variability and Earthâ€™s rotation as drivers of transport in a deep, elongated subalpine lake: The case of Lake Garda. Journal of Limnology, 2018, 77, .	0.3	18
17	Exploring the Effects of Rooftop Mitigation Strategies on Urban Temperatures and Energy Consumption. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035002.	1.2	17
18	A method to determine the characteristic timeâ€scales of quasiâ€isotropic surfaceâ€layer turbulence over complex terrain: AÂcaseâ€study in the Adige Valley (Italian Alps). Quarterly Journal of the Royal Meteorological Society, 2019, 145, 495-512.	1.0	15

#	Article	IF	Citations
19	Assessing the Ability of WRFâ€BEPÂ+ÂBEM in Reproducing the Wintertime Building Energy Consumption of an Italian Alpine City. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033652.	1.2	15
20	Meteorological normalization of NO2 concentrations in the Province of Bolzano (Italian Alps). Atmospheric Environment, 2021, 246, 118048.	1.9	14
21	Multi-scale evaluation of a 3D lake model forced by an atmospheric model against standard monitoring data. Environmental Modelling and Software, 2021, 139, 105017.	1.9	14
22	Estimating Hourly Beam and Diffuse Solar Radiation in an Alpine Valley: A Critical Assessment of Decomposition Models. Atmosphere, 2018, 9, 117.	1.0	13
23	Sensitivity analysis of urban microclimatic conditions and building energy consumption on urban parameters by means of idealized numerical simulations. Urban Climate, 2020, 34, 100677.	2.4	13
24	Large eddy simulation (<scp>LES</scp>) of windâ€driven circulation in a periâ€alpine lake: Detection of turbulent structures and implications of a complex surrounding orography. Journal of Geophysical Research: Oceans, 2017, 122, 4704-4722.	1.0	12
25	The relation between circulation types and regional Alpine climate. Part I: synoptic climatology of Trentino. International Journal of Climatology, 2015, 35, 4655-4672.	1.5	11
26	Challenges in the application of a WRF/Urban-TRNSYS model chain for estimating the cooling demand of buildings: A case study in Bolzano (Italy). Science and Technology for the Built Environment, 2018, 24, 529-544.	0.8	11
27	Field calibration of a low-cost sensors network to assess traffic-related air pollution along the Brenner highway. Atmospheric Environment, 2022, 275, 119008.	1.9	10
28	A Solar Atlas for the Trentino Region in the Alps: Quality Control of Surface Radiation Data. Energy Procedia, 2014, 59, 336-343.	1.8	8
29	Atmospheric dispersion modelling with AERMOD for comparative impact assessment of different pollutant emission sources in an Alpine valley. WIT Transactions on Ecology and the Environment, 2015, , .	0.0	7
30	A dataset of tracer concentrations and meteorological observations from the Bolzano Tracer EXperiment (BTEX) to characterize pollutant dispersion processes in an Alpine valley. Earth System Science Data, 2020, 12, 277-291.	3.7	7
31	A Refinement of the McMillen (1988) Recursive Digital Filter for the Analysis of Atmospheric Turbulence. Boundary-Layer Meteorology, 2018, 168, 517-523.	1.2	6
32	Using remote sensing and numerical modelling to quantify a turbidity discharge event in Lake Garda. Journal of Limnology, 2021, 80, .	0.3	5
33	Effects of changes in observational sites position and surrounding urbanisation on the temperature time series of the city of Trento. Urban Climate, 2014, 10, 509-529.	2.4	4
34	Size-segregated aerosol fluxes, deposition velocities, and chemical composition in an Alpine valley. Atmospheric Research, 2022, 268, 105995.	1.8	4
35	The relation between circulation types and regional Alpine climate. Part <scp>II</scp>: the dependence of the predictive skill on the vertical level of the classification for Trentino. International Journal of Climatology, 2016, 36, 2189-2199.	1.5	2
36	Verona Adapt. Modelling as a Planning Instrument: Applying a Climate-Responsive Approach in Verona, Italy. Sustainability, 2021, 13, 6851.	1.6	2

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37	The Bolzano Tracer Experiment (BTEX). Bulletin of the American Meteorological Society, 2021, 102, E966-E989.	1.7	1
38	A New Kâ€“Îµ Turbulence Parameterization for Mesoscale Meteorological Models. Monthly Weather Review, 2022, 150, 2157-2174.	0.5	1