

Massimiliano Burlando

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,728
citations

279701

23
h-index

360920

35
g-index

37
all docs

37
docs citations

37
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning based automated identification of thunderstorms from anemometric records using shapelet transform. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 220, 104856.	1.7	9
2	Experimental Investigation of the Near-Surface Flow Dynamics in Downburst-like Impinging Jets Immersed in ABL-like Winds. <i>Atmosphere</i> , 2022, 13, 621.	1.0	6
3	Downburst-like experimental impinging jet measurements at the WindEEE Dome. <i>Scientific Data</i> , 2022, 9, .	2.4	8
4	Experimental investigation of the near-surface flow dynamics in downburst-like impinging jets. <i>Environmental Fluid Mechanics</i> , 2022, 22, 921-954.	0.7	5
5	Experimental and numerical investigation of the effect of blade number on the aerodynamic performance of a small-scale horizontal axis wind turbine. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3931-3944.	3.4	46
6	A novel approach to scaling experimentally produced downburst-like impinging jet outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 196, 104025.	1.7	28
7	A general-purpose analytical model for reconstructing the thunderstorm outflows of travelling downbursts immersed in ABL flows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 207, 104373.	1.7	13
8	Investigation of the Weather Conditions During the Collapse of the Morandi Bridge in Genoa on 14 August 2018 Using Field Observations and WRF Model. <i>Atmosphere</i> , 2020, 11, 724.	1.0	7
9	Vertical profile characteristics of thunderstorm outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 206, 104332.	1.7	35
10	Detection, simulation, modelling and loading of thunderstorm outflows to design wind-safer and cost-efficient structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 200, 104142.	1.7	30
11	Effect of Wind Tunnel Blockage on the Performance of a Horizontal Axis Wind Turbine with Different Blade Number. <i>Energies</i> , 2019, 12, 1988.	1.6	20
12	Directional decomposition and properties of thunderstorm outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 189, 71-90.	1.7	33
13	Simulation of urban boundary and canopy layer flows in port areas induced by different marine boundary layer inflow conditions. <i>Science of the Total Environment</i> , 2019, 670, 876-892.	3.9	21
14	A web-based GIS platform for the safe management and risk assessment of complex structural and infrastructural systems exposed to wind. <i>Advances in Engineering Software</i> , 2018, 117, 29-45.	1.8	57
15	A refined analysis of thunderstorm outflow characteristics relevant to the wind loading of structures. <i>Probabilistic Engineering Mechanics</i> , 2018, 54, 9-24.	1.3	59
16	Monitoring, cataloguing, and weather scenarios of thunderstorm outflows in the northern Mediterranean. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2309-2330.	1.5	37
17	Large-scale forcing effects on wind flows in the urban canopy: Impact of inflow conditions. <i>Sustainable Cities and Society</i> , 2018, 42, 593-610.	5.1	17
18	Integrated tools for improving the resilience of seaports under extreme wind events. <i>Sustainable Cities and Society</i> , 2017, 32, 277-294.	5.1	41

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19	Local-scale forcing effects on wind flows in an urban environment: Impact of geometrical simplifications. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 170, 238-255.	1.7	47
20	Field Data Analysis and Weather Scenario of a Downburst Event in Livorno, Italy, on 1 October 2012. <i>Monthly Weather Review</i> , 2017, 145, 3507-3527.	0.5	58
21	Wind tunnel measurements of the urban boundary layer development over a historical district in Italy. <i>Building and Environment</i> , 2017, 111, 192-206.	3.0	44
22	Wind Power Forecasting techniques in complex terrain: ANN vs. ANN-CFD hybrid approach. <i>Journal of Physics: Conference Series</i> , 2016, 753, 082002.	0.3	21
23	Experimental power curve of small-size wind turbines in turbulent urban environment. <i>Applied Energy</i> , 2015, 154, 112-121.	5.1	163
24	Numerical modelling for wind farm operational assessment in complex terrain. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 320-329.	1.7	44
25	Numerical and experimental methods to investigate the behaviour of vertical-axis wind turbines with stators. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 144, 125-133.	1.7	26
26	Characteristics of thunderstorms relevant to the wind loading of structures. <i>Wind and Structures, an International Journal</i> , 2015, 20, 763-791.	0.8	116
27	Wind Energy Forecast in Complex Sites with a Hybrid Neural Network and CFD based Method. <i>Energy Procedia</i> , 2014, 45, 188-197.	1.8	25
28	Wind climate analysis in complex terrains. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 123, 349-362.	1.7	32
29	The wind forecast for safety management of port areas. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 104-106, 266-277.	1.7	95
30	Wind speed and wind energy forecast through Kalman filtering of Numerical Weather Prediction model output. <i>Applied Energy</i> , 2012, 99, 154-166.	5.1	417
31	The synoptic-scale surface wind climate regimes of the Mediterranean Sea according to the cluster analysis of ERA-40 wind fields. <i>Theoretical and Applied Climatology</i> , 2009, 96, 69-83.	1.3	45
32	Preliminary estimate of the large-scale wind energy resource with few measurements available: The case of Montenegro. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2009, 97, 497-511.	1.7	20
33	Optimization of the Regional Spatial Distribution of Wind Power Plants to Minimize the Variability of Wind Energy Input into Power Supply Systems. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 3099-3116.	0.6	52
34	A simple and efficient procedure for the numerical simulation of wind fields in complex terrain. <i>Boundary-Layer Meteorology</i> , 2007, 125, 417-439.	1.2	34
35	Parameterisation of the Planetary Boundary Layer for Diagnostic Wind Models. <i>Boundary-Layer Meteorology</i> , 2007, 125, 389-397.	1.2	17
36	Parameterisation of the planetary boundary layer for diagnostic wind models. , 2007, , 233-241.		0