

Massimiliano Burlando

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,728
citations

279798

23
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Wind speed and wind energy forecast through Kalman filtering of Numerical Weather Prediction model output. <i>Applied Energy</i> , 2012, 99, 154-166.	10.1	417
2	Experimental power curve of small-size wind turbines in turbulent urban environment. <i>Applied Energy</i> , 2015, 154, 112-121.	10.1	163
3	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
4	The wind forecast for safety management of port areas. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 104-106, 266-277.	3.9	95
5	A refined analysis of thunderstorm outflow characteristics relevant to the wind loading of structures. <i>Probabilistic Engineering Mechanics</i> , 2018, 54, 9-24.	2.7	59
6	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.	1.4	58
7	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.	3.8	57
8	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.	1.5	52
9	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.	3.9	47
10	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.	6.4	46
11	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.	2.8	45
12	Numerical modelling for wind farm operational assessment in complex terrain. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 320-329.	3.9	44
13	Wind tunnel measurements of the urban boundary layer development over a historical district in Italy. <i>Building and Environment</i> , 2017, 111, 192-206.	6.9	44
14	Integrated tools for improving the resilience of seaports under extreme wind events. <i>Sustainable Cities and Society</i> , 2017, 32, 277-294.	10.4	41
15	Monitoring, cataloguing, and weather scenarios of thunderstorm outflows in the northern Mediterranean. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2309-2330.	3.6	37
16	Vertical profile characteristics of thunderstorm outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 206, 104332.	3.9	35
17	A simple and efficient procedure for the numerical simulation of wind fields in complex terrain. <i>Boundary-Layer Meteorology</i> , 2007, 125, 417-439.	2.3	34
18	Directional decomposition and properties of thunderstorm outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 189, 71-90.	3.9	33

#	ARTICLE	IF	CITATIONS
19	Wind climate analysis in complex terrains. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 123, 349-362.	3.9	32
20	Detection, simulation, modelling and loading of thunderstorm outflows to design wind-safer and cost-efficient structures. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 200, 104142.	3.9	30
21	A novel approach to scaling experimentally produced downburst-like impinging jet outflows. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 196, 104025.	3.9	28
22	Numerical and experimental methods to investigate the behaviour of vertical-axis wind turbines with stators. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 144, 125-133.	3.9	26
23	Wind Energy Forecast in Complex Sites with a Hybrid Neural Network and CFD based Method. Energy Procedia, 2014, 45, 188-197.	1.8	25
24	Wind Power Forecasting techniques in complex terrain: ANN vs. ANN-CFD hybrid approach. Journal of Physics: Conference Series, 2016, 753, 082002.	0.4	21
25	Simulation of urban boundary and canopy layer flows in port areas induced by different marine boundary layer inflow conditions. Science of the Total Environment, 2019, 670, 876-892.	8.0	21
26	Preliminary estimate of the large-scale wind energy resource with few measurements available: The case of Montenegro. Journal of Wind Engineering and Industrial Aerodynamics, 2009, 97, 497-511.	3.9	20
27	Effect of Wind Tunnel Blockage on the Performance of a Horizontal Axis Wind Turbine with Different Blade Number. Energies, 2019, 12, 1988.	3.1	20
28	Parameterisation of the Planetary Boundary Layer for Diagnostic Wind Models. Boundary-Layer Meteorology, 2007, 125, 389-397.	2.3	17
29	Large-scale forcing effects on wind flows in the urban canopy: Impact of inflow conditions. Sustainable Cities and Society, 2018, 42, 593-610.	10.4	17
30	A general-purpose analytical model for reconstructing the thunderstorm outflows of travelling downbursts immersed in ABL flows. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 207, 104373.	3.9	13
31	Machine learning based automated identification of thunderstorms from anemometric records using shapelet transform. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 220, 104856.	3.9	9
32	Downburst-like experimental impinging jet measurements at the WinDEE Dome. Scientific Data, 2022, 9, .	5.3	8
33	Investigation of the Weather Conditions During the Collapse of the Morandi Bridge in Genoa on 14 August 2018 Using Field Observations and WRF Model. Atmosphere, 2020, 11, 724.	2.3	7
34	Experimental Investigation of the Near-Surface Flow Dynamics in Downburst-like Impinging Jets Immersed in ABL-like Winds. Atmosphere, 2022, 13, 621.	2.3	6
35	Experimental investigation of the near-surface flow dynamics in downburst-like impinging jets. Environmental Fluid Mechanics, 2022, 22, 921-954.	1.6	5
36	Parameterisation of the planetary boundary layer for diagnostic wind models. , 2007, , 233-241.		0