

Giovanni Solari

List of Publications by Year in descending order

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99
papers

2,983
citations

126907

33
h-index

189892

50
g-index

101
all docs

101
docs citations

101
times ranked

920
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.	3.9	9
2	Maximum dynamic response of linear elastic SDOF systems based on an evolutionary spectral model for thunderstorm outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 224, 104978.	3.9	11
3	Downburst-like experimental impinging jet measurements at the WindEEE Dome. <i>Scientific Data</i> , 2022, 9, .	5.3	8
4	Experimental investigation of the near-surface flow dynamics in downburst-like impinging jets. <i>Environmental Fluid Mechanics</i> , 2022, 22, 921-954.	1.6	5
5	Aerodynamic coefficients and pressure distribution on two circular cylinders with free end immersed in experimentally produced downburst-like outflows. <i>Advances in Structural Engineering</i> , 2021, 24, 522-538.	2.4	5
6	Gust Buffeting and Aerodynamic Admittance of Structures with Arbitrary Mode Shapes. I: Enhanced Equivalent Spectrum Technique. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	4
7	A Refined Study of Atmospheric Wind Properties in the Beijing Urban Area Based on a 325 m Meteorological Tower. <i>Atmosphere</i> , 2021, 12, 786.	2.3	2
8	Wind tunnel testing of telecommunication lattice towers equipped with ancillaries. <i>Engineering Structures</i> , 2021, 241, 112526.	5.3	8
9	Transient aeroelasticity of structures subjected to thunderstorm outflows. <i>Engineering Structures</i> , 2021, 245, 112801.	5.3	11
10	Gust Buffeting and Aerodynamic Admittance of Structures with Arbitrary Mode Shapes. II: A POD-Based Interpretation. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, 04020143.	2.9	2
11	A novel approach to scaling experimentally produced downburst-like impinging jet outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 196, 104025.	3.9	28
12	Education and dissemination in wind science and engineering. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 203, 104241.	3.9	4
13	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.	3.9	13
14	An evolutionary power spectral density model of thunderstorm outflows consistent with real-scale time-history records. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 203, 104204.	3.9	16
15	Vertical profile characteristics of thunderstorm outflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 206, 104332.	3.9	35
16	Thunderstorm Downbursts and Wind Loading of Structures: Progress and Prospect. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	20
17	Time varying mean extraction for stationary and nonstationary winds. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 203, 104187.	3.9	24
18	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.	3.9	30

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19	Advancements in Wind Science and Engineering. Springer Tracts in Civil Engineering, 2019, , 841-924.	0.5	0
20	Characteristics of intense winds in mountain area based on field measurement: Focusing on thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 190, 166-182.	3.9	68
21	Directional response of structures to thunderstorm outflows. Meccanica, 2019, 54, 1281-1306.	2.0	13
22	Directional decomposition and properties of thunderstorm outflows. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 189, 71-90.	3.9	33
23	Characteristics of thunderstorm outflows in Beijing urban area. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 195, 104011.	3.9	28
24	Extreme wind speed distribution in a mixed wind climate. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 176, 239-253.	3.9	45
25	A web-based GIS platform for the safe management and risk assessment of complex structural and infrastructural systems exposed to wind. Advances in Engineering Software, 2018, 117, 29-45.	3.8	57
26	A refined analysis of thunderstorm outflow characteristics relevant to the wind loading of structures. Probabilistic Engineering Mechanics, 2018, 54, 9-24.	2.7	59
27	Response to the further discussion on "The annual rate of independent events for the analysis of extreme wind speed, by N. Cook". Journal of Wind Engineering and Industrial Aerodynamics, 2018, 174, 464-465.	3.9	1
28	Gust Buffeting of Slender Structures and Structural Elements: Simplified Formulas for Design Calculations and Code Provisions. Journal of Structural Engineering, 2018, 144, .	3.4	8
29	Investigation of wind load on 1,000 m-high super-tall buildings based on HFFB tests. Structural Control and Health Monitoring, 2018, 25, e2068.	4.0	9
30	Some critical issues on the distribution of the maximum value of the wind-excited response of structures. Probabilistic Engineering Mechanics, 2018, 54, 65-81.	2.7	3
31	Monitoring, cataloguing, and weather scenarios of thunderstorm outflows in the northern Mediterranean. Natural Hazards and Earth System Sciences, 2018, 18, 2309-2330.	3.6	37
32	Dynamic response of structures to thunderstorm outflows: Response spectrum technique vs time-domain analysis. Engineering Structures, 2018, 176, 188-207.	5.3	24
33	Actions monitoring as an alternative to structural rehabilitation: Case study of a river bridge. Structural Control and Health Monitoring, 2018, 25, e2250.	4.0	10
34	Response to the Discussion on "The annual rate of independent events for the analysis of extreme wind speed, by R. Ian Harris". Journal of Wind Engineering and Industrial Aerodynamics, 2017, 164, 179-181.	3.9	4
35	Wind Loading of Structures: Framework, Phenomena, Tools and Codification. Structures, 2017, 12, 265-285.	3.6	21
36	Field Data Analysis and Weather Scenario of a Downburst Event in Livorno, Italy, on 1 October 2012. Monthly Weather Review, 2017, 145, 3507-3527.	1.4	58

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37	Hybrid simulation of thunderstorm outflows and wind-excited response of structures. <i>Meccanica</i> , 2017, 52, 3197-3220.	2.0	28
38	Alongwind load effects on free-standing lattice towers. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 155, 182-196.	3.9	13
39	The Annual Rate of Independent Events for the analysis of the extreme wind speed. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 156, 104-114.	3.9	11
40	Joint Modeling of the Parent Population and Extreme Value Distributions of the Mean Wind Velocity. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	5
41	Thunderstorm response spectrum technique: Theory and applications. <i>Engineering Structures</i> , 2016, 108, 28-46.	5.3	59
42	Thunderstorm response spectrum: Fundamentals and case study. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 143, 62-77.	3.9	71
43	Aeroelastic instability and wind-excited response of complex lighting poles and antenna masts. <i>Engineering Structures</i> , 2015, 85, 264-276.	5.3	26
44	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
45	Thunderstorm Monitoring, Modelling, Response and Loading of Structures. <i>Wind Engineers JAWE</i> , 2014, 39, 344-346.	0.1	1
46	Separation and classification of extreme wind events from anemometric records. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 126, 132-143.	3.9	96
47	A refined analysis and simulation of the wind speed macro-meteorological components. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 132, 54-65.	3.9	15
48	Steenbergen, R.D.J.M., Vrouwenvelder, A.C.W.M., Geurts, C.P.W., 2012. The use of Eurocode EN 1991-1-4 procedures 1 and 2 for building dynamics: A comparative study. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> 107-108, 299-306. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 129, 103-106.	3.9	0
49	Emerging issues and new frameworks for wind loading on structures in mixed climates. <i>Wind and Structures, an International Journal</i> , 2014, 19, 295-320.	0.8	47
50	Wind climate analysis in complex terrains. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 123, 349-362.	3.9	32
51	Extreme wind speeds from long-term synthetic records. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 115, 22-38.	3.9	47
52	Closed-Form Prediction of the Alongwind-Induced Fatigue of Structures. <i>Journal of Structural Engineering</i> , 2012, 138, 1149-1160.	3.4	13
53	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
54	Long-term simulation of the mean wind speed. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011, 99, 1139-1150.	3.9	30

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55	Effective wind actions on ideal and real structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010, 98, 417-428.	3.9	6
56	Wind-induced fatigue collapse of real slender structures. <i>Engineering Structures</i> , 2010, 32, 3888-3898.	5.3	52
57	Closed form solution of the alongwind-induced fatigue damage to structures. <i>Engineering Structures</i> , 2009, 31, 2414-2425.	5.3	21
58	Proper orthogonal decomposition in wind engineering - Part 1: A state-of-the-art and some prospects. <i>Wind and Structures, an International Journal</i> , 2007, 10, 153-176.	0.8	77
59	Gust buffeting of long span bridges: Double Modal Transformation and effective turbulence. <i>Engineering Structures</i> , 2007, 29, 1698-1707.	5.3	22
60	Wind-induced fatigue of structures under neutral and non-neutral atmospheric conditions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2007, 95, 1364-1383.	3.9	27
61	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
62	The International Association for Wind Engineering (IAWE): Progress and prospects. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2007, 95, 813-842.	3.9	22
63	Dynamic Approach to the Wind Loading of Structures: Alongwind, Crosswind and Torsional Response. , 2007, , 137-166.		1
64	Proper orthogonal decomposition in wind engineering - Part 2: Theoretical aspects and some applications. <i>Wind and Structures, an International Journal</i> , 2007, 10, 177-208.	0.8	58
65	Monte Carlo simulation of wind velocity fields on complex structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2006, 94, 323-339.	3.9	95
66	Bimodal Alongwind Fatigue of Structures. <i>Journal of Structural Engineering</i> , 2006, 132, 899-908.	3.4	17
67	Double Proper Orthogonal Decomposition for Representing and Simulating Turbulence Fields. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 1302-1312.	2.9	21
68	Aspects of the dynamic wind-induced response of structures and codification. <i>Wind and Structures, an International Journal</i> , 2005, 8, 251-268.	0.8	31
69	Equivalent static wind actions on vertical structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2004, 92, 335-357.	3.9	43
70	Directional Wind-Induced Fatigue of Slender Vertical Structures. <i>Journal of Structural Engineering</i> , 2004, 130, 1032-1040.	3.4	39
71	Seismic response of multi-supported structures by proper orthogonal decomposition. <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 1639-1654.	4.4	19
72	3-D wind-induced effects on bridges during balanced cantilever erection stages. <i>Wind and Structures, an International Journal</i> , 2003, 6, 1-22.	0.8	8

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73	Gust buffeting and turbulence uncertainties. Journal of Wind Engineering and Industrial Aerodynamics, 2002, 90, 441-459.	3.9	21
74	The role of analytical methods for evaluating the wind-induced response of structures. Journal of Wind Engineering and Industrial Aerodynamics, 2002, 90, 1453-1477.	3.9	16
75	3-D gust effect factor for slender vertical structures. Probabilistic Engineering Mechanics, 2002, 17, 143-155.	2.7	48
76	General tendencies and classification of vertical structures under gust buffeting. Journal of Wind Engineering and Industrial Aerodynamics, 2002, 90, 1299-1319.	3.9	11
77	Dynamic crosswind fatigue of slender vertical structures. Wind and Structures, an International Journal, 2002, 5, 527-542.	0.8	33
78	Damping measurements of steel poles and tubular towers. Engineering Structures, 2001, 23, 1085-1095.	5.3	23
79	Dynamic alongwind fatigue of slender vertical structures. Engineering Structures, 2001, 23, 1622-1633.	5.3	54
80	Double Modal Transformation and Wind Engineering Applications. Journal of Engineering Mechanics - ASCE, 2001, 127, 432-439.	2.9	41
81	Invited Lectures. Wind Engineers JAWE, 2001, 2001, 9-72.	0.1	4
82	Modal transformation tools in structural dynamics and wind engineering. Wind and Structures, an International Journal, 2000, 3, 221-241.	0.8	48
83	Stochastic analysis of the linear equivalent response of bridge piers with aseismic devices. Earthquake Engineering and Structural Dynamics, 1999, 28, 543-560.	4.4	20
84	Stochastic analysis of the linear equivalent response of bridge piers with aseismic devices. Earthquake Engineering and Structural Dynamics, 1999, 28, 543-560.	4.4	1
85	Probabilistic modelling of maximum wind pressure on structures. Journal of Wind Engineering and Industrial Aerodynamics, 1998, 74-76, 1111-1121.	3.9	2
86	On the formulation of ASCE7-95 gust effect factor. Journal of Wind Engineering and Industrial Aerodynamics, 1998, 77-78, 673-684.	3.9	56
87	Investigation of wind actions and effects on the Leaning Tower of Pisa. Wind and Structures, an International Journal, 1998, 1, 1-23.	0.8	19
88	Probability distribution and statistical moments of the maximum wind velocity. Wind and Structures, an International Journal, 1998, 1, 287-302.	0.8	0
89	Gust Buffeting. II: Dynamic Alongwind Response. Journal of Structural Engineering, 1993, 119, 383-398.	3.4	95
90	Gust Buffeting. I: Peak Wind Velocity and Equivalent Pressure. Journal of Structural Engineering, 1993, 119, 365-382.	3.4	131

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91	A generalized definition of gust factor. Journal of Wind Engineering and Industrial Aerodynamics, 1990, 36, 539-548.	3.9	20
92	Wind Response Spectrum. Journal of Engineering Mechanics - ASCE, 1989, 115, 2057-2073.	2.9	32
93	Equivalent Wind Spectrum Technique: Theory and Applications. Journal of Structural Engineering, 1988, 114, 1303-1323.	3.4	58
94	Turbulence Modeling for Gust Loading. Journal of Structural Engineering, 1987, 113, 1550-1569.	3.4	72
95	3-D response of buildings to wind action. Journal of Wind Engineering and Industrial Aerodynamics, 1986, 23, 379-393.	3.9	10
96	Mathematical Model to Predict 3D Wind Loading on Buildings. Journal of Engineering Mechanics - ASCE, 1985, 111, 254-276.	2.9	69
97	Alongwind Response Estimation: Structural Classification. Journal of Structural Engineering, 1983, 109, 575-580.	3.4	8
98	Alongwind Response Estimation: Closed Form Solution. Journal of the Structural Division, 1982, 108, 225-244.	0.2	67
99	The annual rate of independent events "A key interpretation for traditional extreme value distributions of wind velocity. Wind Energy, 0, , .	4.2	0