

Aly M Aly

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,025
citations

394421

19
h-index

454955

30
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61
all docs

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docs citations

61
times ranked

544
citing authors

#	ARTICLE	IF	CITATIONS
1	A Framework for Vibration Attenuation in Traffic Mast Arm Structures under Wind Loads. <i>Experimental Techniques</i> , 2022, 46, 575-593.	1.5	1
2	Large-Scale Open-Jet Testing for Cladding Design in High-Rise Buildings: Higher Peak Pressures Compared to Wind Tunnels. <i>Practice Periodical on Structural Design and Construction</i> , 2022, 27, .	1.3	4
3	Assessing aerodynamic loads on low-rise buildings considering Reynolds number and turbulence effects: a review. <i>Advances in Aerodynamics</i> , 2022, 4, .	2.5	6
4	Urban heat island mitigation via geometric configuration. <i>Theoretical and Applied Climatology</i> , 2022, 149, 1329-1355.	2.8	2
5	Large-Scale Open-Jet Testing: A new frontier in structural wind Engineering. <i>Engineering Structures</i> , 2022, 266, 114567.	5.3	2
6	<i>Aerodynamics</i> . , 2021, , .		1
7	Accelerated Controller Tuning for Wind Turbines Under Multiple Hazards. , 2021, 3, .		0
8	Tuned Mass Damper Design for Slender Masonry Structures: A Framework for Linear and Nonlinear Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3425.	2.5	8
9	Vibration attenuation in wind turbines: A proposed robust pendulum pounding TMD. <i>Engineering Structures</i> , 2021, 233, 111891.	5.3	31
10	High Reynolds number aerodynamic testing of a roof with parapet. <i>Engineering Structures</i> , 2021, 234, 112006.	5.3	12
11	A Moving Vehicle Height Monitoring Sensor System for Overheight Impact Avoidance. <i>Infrastructures</i> , 2021, 6, 91.	2.8	2
12	Bridge pier geometry effects on local scour potential: A comparative study. <i>Ocean Engineering</i> , 2021, 234, 109326.	4.3	25
13	Experimental investigation of the aerodynamics of a large industrial building with parapet. <i>Advances in Aerodynamics</i> , 2021, 3, .	2.5	3
14	Computational efficiency of CFD modeling for building engineering: An empty domain study. <i>Journal of Building Engineering</i> , 2021, 42, 102792.	3.4	10
15	Wind Forces on Ground-Mounted Photovoltaic Solar Systems: A Comparative Study. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2021, 57, 444-471.	1.6	5
16	Structural control and vibration issues in wind turbines: A review. <i>Engineering Structures</i> , 2020, 210, 110087.	5.3	61
17	Vibration attenuation in high-rise buildings to achieve system-level performance under multiple hazards. <i>Engineering Structures</i> , 2019, 197, 109352.	5.3	32
18	Proposed Theory of Semiactive Gains for Smart Dampers in MDOF Systems. <i>Journal of Structural Engineering</i> , 2019, 145, 04019155.	3.4	6

#	ARTICLE	IF	CITATIONS
19	Risk, Reliability, and Uncertainty Quantification of Structural Systems Subjected to Shock and Vibration. Shock and Vibration, 2018, 2018, 1-3.	0.6	0
20	Vibration control in wind turbines to achieve desired system-level performance under single and multiple hazard loadings. Structural Control and Health Monitoring, 2018, 25, e2261.	4.0	27
21	Cylindrical Shell with Junctions: Uncertainty Quantification of Free Vibration and Frequency Response Analysis. Shock and Vibration, 2018, 2018, 1-16.	0.6	2
22	On the evaluation of wind loads for wind turbines' foundation design: Experimental and numerical investigations. Structural Design of Tall and Special Buildings, 2017, 26, e1362.	1.9	8
23	Retrofitting building roofs with aerodynamic features and solar panels to reduce hurricane damage and enhance eco-friendly energy production. Sustainable Cities and Society, 2017, 35, 581-593.	10.4	14
24	Atmospheric boundary layer simulation in a new open-jet facility at LSU: CFD and experimental investigations. Measurement: Journal of the International Measurement Confederation, 2017, 110, 121-133.	5.0	17
25	Structural Improvements for Tall Buildings under Wind Loads: Comparative Study. Shock and Vibration, 2017, 2017, 1-19.	0.6	16
26	Vibration and Control in Structures under Single and Multiple Hazards. Shock and Vibration, 2017, 2017, 1-2.	0.6	1
27	On the evaluation of wind loads on solar panels: The scale issue. Solar Energy, 2016, 135, 423-434.	6.1	58
28	Aerodynamic mitigation of wind-induced uplift forces on low-rise buildings: A comparative study. Journal of Building Engineering, 2016, 5, 267-276.	3.4	22
29	Vibration control in wind turbines for performance enhancement: A comparative study. Wind and Structures, an International Journal, 2016, 22, 107-131.	0.8	18
30	The Use of Bracing Systems with MR Dampers in Super Tall Buildings. International Journal of High-Rise Buildings, 2016, 5, 31-41.	0.4	6
31	On the Design of High-Rise Buildings for Multihazard: Fundamental Differences between Wind and Earthquake Demand. Shock and Vibration, 2015, 2015, 1-22.	0.6	28
32	Control of wind-induced motion in high-rise buildings with hybrid TM/MR dampers. Wind and Structures, an International Journal, 2015, 21, 565-595.	0.8	12
33	Influence of Turbulence, Orientation, and Site Configuration on the Response of Buildings to Extreme Wind. Scientific World Journal, The, 2014, 2014, 1-15.	2.1	7
34	Wind-Induced Pressures on Solar Panels Mounted on Residential Homes. Journal of Architectural Engineering, 2014, 20, .	1.6	25
35	Fast Hybrid Testing of Controlled Smart Dampers for Nonlinear Structures Under Earthquakes. Arabian Journal for Science and Engineering, 2014, 39, 1573-1579.	1.1	5
36	Atmospheric boundary-layer simulation for the built environment: Past, present and future. Building and Environment, 2014, 75, 206-221.	6.9	38

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37	Proposed robust tuned mass damper for response mitigation in buildings exposed to multidirectional wind. <i>Structural Design of Tall and Special Buildings</i> , 2014, 23, 664-691.	1.9	59
38	Vibration control of high-rise buildings for wind: a robust passive and active tuned mass damper. <i>Smart Structures and Systems</i> , 2014, 13, 473-500.	1.9	41
39	Aerodynamics of ground-mounted solar panels: Test model scale effects. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 123, 250-260.	3.9	75
40	Pressure integration technique for predicting wind-induced response in high-rise buildings. <i>AEJ - Alexandria Engineering Journal</i> , 2013, 52, 717-731.	6.4	32
41	Aerodynamic Loads on Solar Panels. , 2013, , .		3
42	Vibration Control of Buildings Using Magnetorheological Damper: A New Control Algorithm. <i>Journal of Engineering (United States)</i> , 2013, 2013, 1-10.	1.0	31
43	Design and Fabrication of a New Open Jet Electric-Fan Wall of Wind Facility for Coastal Research. , 2013, , .		3
44	Internal pressure in a low-rise building with existing envelope openings and sudden breaching. <i>Wind and Structures, an International Journal</i> , 2013, 16, 25-46.	0.8	6
45	Proposed approach for determination of tributary areas for scattered pressure taps. <i>Wind and Structures, an International Journal</i> , 2013, 16, 617-627.	0.8	10
46	Wind loading on trees integrated with a building envelope. <i>Wind and Structures, an International Journal</i> , 2013, 17, 69-85.	0.8	13
47	Proposed Configurations for the Use of Smart Dampers with Bracings in Tall Buildings. <i>Smart Materials Research</i> , 2012, 2012, 1-16.	0.5	5
48	Wind-induced dynamics and loads in a prismatic slender building: A modal approach based on unsteady pressure measurements. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 107-108, 118-130.	3.9	30
49	Full-scale aerodynamic testing of a loose concrete roof paver system. <i>Engineering Structures</i> , 2012, 44, 260-270.	5.3	32
50	A proposed technique for determining aerodynamic pressures on residential homes. <i>Wind and Structures, an International Journal</i> , 2012, 15, 27-41.	0.8	24
51	Florida International University's Wall of Wind: A Tool for Improving Construction Materials and Methods for Hurricane-Prone Regions. , 2011, , .		3
52	On the dynamics of a very slender building under winds: response reduction using MR dampers with lever mechanism. <i>Structural Design of Tall and Special Buildings</i> , 2011, 20, 539-551.	1.9	41
53	Dynamics and Control of High-Rise Buildings under Multidirectional Wind Loads. <i>Smart Materials Research</i> , 2011, 2011, 1-15.	0.5	19
54	Wind profile management and blockage assessment for a new 12-fan Wall of Wind facility at FIU. <i>Wind and Structures, an International Journal</i> , 2011, 14, 285-300.	0.8	44

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55	On the evaluation of the efficacy of a smart damper: a new equivalent energy-based probabilistic approach. <i>Smart Materials and Structures</i> , 2008, 17, 045008.	3.5	19
56	Active Control in a High-Rise Building under Multidirectional Wind Loads. , 2008, , .		5
57	Tall Buildings Under Multidirectional Winds: Response Prediction and Reduction. , 0, , .		0
58	Aerodynamics of Low-Rise Buildings: Challenges and Recent Advances in Experimental and Computational Methods. , 0, , .		2