Aly M Aly

List of Publications by Year
in descending order

58 papers	1,025 citations	394421 19 h-index	454955 30 g-index
61 all docs	61 docs citations	61 times ranked	544 citing authors

#	Article	IF	Citations
1	Aerodynamics of ground-mounted solar panels: Test model scale effects. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 123, 250-260.	3.9	75
2	Structural control and vibration issues in wind turbines: A review. Engineering Structures, 2020, 210, 110087.	5.3	61
3	Proposed robust tuned mass damper for response mitigation in buildings exposed to multidirectional wind. Structural Design of Tall and Special Buildings, 2014, 23, 664-691.	1.9	59
4	On the evaluation of wind loads on solar panels: The scale issue. Solar Energy, 2016, 135, 423-434.	6.1	58
5	Wind profile management and blockage assessment for a new 12-fan Wall of Wind facility at FIU. Wind and Structures, an International Journal, 2011, 14, 285-300.	0.8	44
6	On the dynamics of a very slender building under winds: response reduction using MR dampers with lever mechanism. Structural Design of Tall and Special Buildings, 2011, 20, 539-551.	1.9	41
7	Vibration control of high-rise buildings for wind: a robust passive and active tuned mass damper. Smart Structures and Systems, 2014, 13, 473-500.	1.9	41
8	Atmospheric boundary-layer simulation for the built environment: Past, present and future. Building and Environment, 2014, 75, 206-221.	6.9	38
9	Full-scale aerodynamic testing of a loose concrete roof paver system. Engineering Structures, 2012, 44, 260-270.	5.3	32
10	Pressure integration technique for predicting wind-induced response in high-rise buildings. AEJ - Alexandria Engineering Journal, 2013, 52, 717-731.	6.4	32
11	Vibration attenuation in high-rise buildings to achieve system-level performance under multiple hazards. Engineering Structures, 2019, 197, 109352.	5.3	32
12	Vibration Control of Buildings Using Magnetorheological Damper: A New Control Algorithm. Journal of Engineering (United States), 2013, 2013, 1-10.	1.0	31
13	Vibration attenuation in wind turbines: A proposed robust pendulum pounding TMD. Engineering Structures, 2021, 233, 111891.	5.3	31
14	Wind-induced dynamics and loads in a prismatic slender building: A modal approach based on unsteady pressure measurements. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 107-108, 118-130.	3.9	30
15	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
16	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
17	Wind-Induced Pressures on Solar Panels Mounted on Residential Homes. Journal of Architectural Engineering, 2014, 20, .	1.6	25
18	Bridge pier geometry effects on local scour potential: A comparative study. Ocean Engineering, 2021, 234, 109326.	4.3	25

#	Article	IF	Citations
19	A proposed technique for determining aerodynamic pressures on residential homes. Wind and Structures, an International Journal, 2012, 15, 27-41.	0.8	24
20	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
21	On the evaluation of the efficacy of a smart damper: a new equivalent energy-based probabilistic approach. Smart Materials and Structures, 2008, 17, 045008.	3.5	19
22	Dynamics and Control of High-Rise Buildings under Multidirectional Wind Loads. Smart Materials Research, 2011, 2011, 1-15.	0.5	19
23	Vibration control in wind turbines for performance enhancement: A comparative study. Wind and Structures, an International Journal, 2016, 22, 107-131.	0.8	18
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	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
27	Wind loading on trees integrated with a building envelope. Wind and Structures, an International Journal, 2013, 17, 69-85.	0.8	13
28	High Reynolds number aerodynamic testing of a roof with parapet. Engineering Structures, 2021, 234, 112006.	5.3	12
29	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
30	Computational efficiency of CFD modeling for building engineering: An empty domain study. Journal of Building Engineering, 2021, 42, 102792.	3.4	10
31	Proposed approach for determination of tributary areas for scattered pressure taps. Wind and Structures, an International Journal, 2013, 16, 617-627.	0.8	10
32	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
33	Tuned Mass Damper Design for Slender Masonry Structures: A Framework for Linear and Nonlinear Analysis. Applied Sciences (Switzerland), 2021, 11, 3425.	2.5	8
34	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
35	Proposed Theory of Semiactive Gains for Smart Dampers in MDOF Systems. Journal of Structural Engineering, 2019, 145, 04019155.	3.4	6
36	Internal pressure in a low-rise building with existing envelope openings and sudden breaching. Wind and Structures, an International Journal, 2013, 16, 25-46.	0.8	6

#	ARTICLE	IF	CITATIONS
37	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
38	Assessing aerodynamic loads on low-rise buildings considering Reynolds number and turbulence effects: a review. Advances in Aerodynamics, 2022, 4, .	2.5	6
39	Active Control in a High-Rise Building under Multidirectional Wind Loads. , 2008, , .		5
40	Proposed Configurations for the Use of Smart Dampers with Bracings in Tall Buildings. Smart Materials Research, 2012, 2012, 1-16.	0.5	5
41	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
42	Wind Forces on Ground-Mounted Photovoltaic Solar Systems: A Comparative Study. Applied Solar Energy (English Translation of Geliotekhnika), 2021, 57, 444-471.	1.6	5
43	Large-Scale Open-Jet Testing for Cladding Design in High-Rise Buildings: Higher Peak Pressures Compared to Wind Tunnels. Practice Periodical on Structural Design and Construction, 2022, 27, .	1.3	4
44	Florida International University's Wall of Wind: A Tool for Improving Construction Materials and Methods for Hurricane-Prone Regions. , 2011, , .		3
45	Aerodynamic Loads on Solar Panels. , 2013, , .		3
46	Design and Fabrication of a New Open Jet Electric-Fan Wall of Wind Facility for Coastal Research. , 2013, , .		3
47	Experimental investigation of the aerodynamics of a large industrial building with parapet. Advances in Aerodynamics, 2021, 3, .	2.5	3
48	Cylindrical Shell with Junctions: Uncertainty Quantification of Free Vibration and Frequency Response Analysis. Shock and Vibration, 2018, 2018, 1-16.	0.6	2
49	Aerodynamics of Low-Rise Buildings: Challenges and Recent Advances in Experimental and Computational Methods. , 0, , .		2
50	A Moving Vehicle Height Monitoring Sensor System for Overheight Impact Avoidance. Infrastructures, 2021, 6, 91.	2.8	2
51	Urban heat island mitigation via geometric configuration. Theoretical and Applied Climatology, 2022, 149, 1329-1355.	2.8	2
52	Large-Scale Open-Jet Testing: A new frontier in structural wind Engineering. Engineering Structures, 2022, 266, 114567.	5.3	2
53	Vibration and Control in Structures under Single and Multiple Hazards. Shock and Vibration, 2017, 2017, 1-2.	0.6	1
54	Aerodynamics. , 2021, , .		1

#	Article	IF	Citations
55	A Framework for Vibration Attenuation in Traffic Mast Arm Structures under Wind Loads. Experimental Techniques, 2022, 46, 575-593.	1.5	1
56	Tall Buildings Under Multidirectional Winds: Response Prediction and Reduction. , 0, , .		0
57	Risk, Reliability, and Uncertainty Quantification of Structural Systems Subjected to Shock and Vibration. Shock and Vibration, 2018, 2018, 1-3.	0.6	0
58	Accelerated Controller Tuning for Wind Turbines Under Multiple Hazards. , 2021, 3, .		0