Arindam Gan Chowdhury

List of Publications by Year
in descending order

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79	1,265	361413	414414
papers	citations	20 h-index	32 g-index

80	80	80	485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new experimental-numerical approach to estimate peak wind loads on roof-mounted photovoltaic systems by incorporating inflow turbulence and dynamic effects. Engineering Structures, 2022, 252, 113739.	5.3	8
2	Experimental investigation of wind impact on low-rise elevated residences. Engineering Structures, 2022, 257, 114096.	5.3	2
3	Effects of Permeability on the Dynamic Properties and Weathertightness of Double Skin Curtain Walls. , 2022, , .		0
4	Study of wind loads on asphalt shingles using full-scale experimentation. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 225, 105005.	3.9	2
5	Maximum grid spacing effect on peak pressure computation using inflow turbulence generators. Results in Engineering, 2022, 15, 100491.	5.1	8
6	Characterization of wind-induced pressure on membrane roofs based on full-scale wind tunnel testing. Engineering Structures, 2021, 235, 112101.	5.3	13
7	FULL-SCALE EXPERIMENTAL TESTING TO INVESTIGATE WIND-INDUCED VIBRATIONS ON CURTAIN WALL SYSTEMS. Proceedings of International Structural Engineering and Construction, 2021, 8, .	0.1	2
8	Aeroelastic modeling to study the wind-induced response of a self-supported lattice tower. Engineering Structures, 2021, 245, 112885.	5.3	15
9	Dependence of internal pressure in low-rise buildings on aerodynamic parameters, defect features and background leakage. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 219, 104822.	3.9	5
10	Effects of roof geometric details on aerodynamic performance of standing seam metal roofs. Engineering Structures, 2020, 225, 111303.	5.3	12
11	Aeroelastic Testing of Span-Wire Traffic Signal Systems. Frontiers in Built Environment, 2020, 6, .	2.3	4
12	Aerodynamic Mitigation of Wind Uplift on Low-Rise Building Roof Using Large-Scale Testing. Frontiers in Built Environment, 2020, 5, .	2.3	15
13	Effect of assembly construction on the wind induced pressure of membrane roofs. Engineering Structures, 2020, 221, 110725.	5.3	5
14	Experimental Assessment of Wind Loads on Roof-to-Wall Connections for Residential Buildings. Frontiers in Built Environment, 2020, 6, .	2.3	7
15	Determining the Efficacy of a Retrofit Technique for Residential Buildings Using Holistic Testing. , 2020, , .		0
16	Holistic testing to determine quantitative wind-driven rain intrusion for shuttered and impact resistant windows. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 206, 104359.	3.9	13
17	Mitigation of Aerodynamic Uplift Loads Using Roof Integrated Wind Turbine Systems. Frontiers in Built Environment, 2019, 5, .	2.3	1
18	Insights from a Stated Preference Experiment of Florida Residents: Role of Information and Incentives in Hurricane Risk Mitigation. Natural Hazards Review, 2019, 20, 04018029.	1.5	8

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19	Innovative Hurricane-Resistant UHPC Roof System. Journal of Architectural Engineering, 2018, 24, .	1.6	6
20	Simulation of Rain Penetration and Associated Damage in Buildings within a Hurricane Vulnerability Model. Natural Hazards Review, 2018, 19, .	1.5	12
21	Wind loading on ridge, hip and perimeter roof tiles: A full-scale experimental study. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 166, 90-105.	3.9	19
22	Effect of wind-induced internal pressure on local frame forces of low-rise buildings. Engineering Structures, 2017, 143, 455-468.	5.3	11
23	Estimation of Wind Loads on the Balcony Glass Handrails of Mid-Rise Buildings. , 2017, , .		0
24	Design of rigid structures for wind using time series of demand-to-capacity indexes: Application to steel portal frames. Engineering Structures, 2017, 132, 428-442.	5.3	8
25	An Experimental Study on the Wind-Induced Response of Variable Message Signs. Frontiers in Built Environment, 2017, 3, .	2.3	0
26	Experimental Assessment of Wind Loads on Vinyl Wall Siding. Frontiers in Built Environment, 2016, 2, .	2.3	1
27	Full-Scale Testing of a Precast Concrete Supertile Roofing System for Hurricane Damage Mitigation. Journal of Architectural Engineering, 2016, 22, .	1.6	5
28	Closure to â€œWind Directionality Factors for Nonhurricane and Hurricane-Prone Regionsâ€•by Filmon Habte, Arindam Gan Chowdhury, DongHun Yeo, and Emil Simiu. Journal of Structural Engineering, 2016, 142, 07015010.	3.4	0
29	Partial turbulence simulation method for predicting peak wind loads on small structures and building appurtenances. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 157, 47-62.	3.9	75
30	Design, Development, and Testing of a Composite Roofing System. Journal of Composites for Construction, 2016, 20, 04015052.	3.2	2
31	Towards guidelines for design of loose-laid roof pavers for wind uplift. Wind and Structures, an International Journal, 2016, 22, 133-160.	0.8	2
32	Wall of Wind Research and Testing to Enhance Resilience of Civil Infrastructure to Hurricane Multi-Hazards. , 2016, , 357-379.		0
33	Full-scale testing to evaluate the performance of standing seam metal roofs under simulated wind loading. Engineering Structures, 2015, 105, 231-248.	5.3	35
34	Design Guidelines for Roof Pavers against Wind Uplift. , 2015, , .		1
35	Household Preferences for a Hurricane Mitigation Fund in Florida. Natural Hazards Review, 2015, 16, .	1.5	12
36	Estimation of Wind-Driven Rain Intrusion through Building Envelope Defects and Breaches during Tropical Cyclones. Natural Hazards Review, 2015, 16, .	1.5	22

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37	Opening and Compartmentalization Effects of Internal Pressure in Low-Rise Buildings with Gable and Hip Roofs. Journal of Architectural Engineering, 2015, 21, .	1.6	10
38	Wind Directionality Factors for Nonhurricane and Hurricane-Prone Regions. Journal of Structural Engineering, 2015, 141, 04014208.	3.4	13
39	Investigation of wind-induced dynamic and aeroelastic effects on variable message signs. Wind and Structures, an International Journal, 2015, 20, 793-810.	0.8	9
40	Wind Uplift of Concrete Roof Pavers. , 2014, , .		0
41	Wind Effects on Roofs with High-Profile Tiles: Experimental Study. Journal of Architectural Engineering, 2014, 20, .	1.6	8
42	Comparisons of Two Wind Tunnel Pressure Databases and Partial Validation against Full-Scale Measurements. Journal of Structural Engineering, 2014, 140, .	3.4	17
43	Simulation of wind-driven rain associated with tropical storms and hurricanes using the 12-fan Wall of Wind. Building and Environment, 2014, 76, 18-29.	6.9	27
44	Large-scale testing on wind uplift of roof pavers. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 128, 22-36.	3.9	36
45	Distribution of wind-driven rain deposition on low-rise buildings: Direct impinging raindrops versus surface runoff. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 133, 27-38.	3.9	29
46	Influence of spacing parameters on the wind loading of solar array. Journal of Fluids and Structures, 2014, 48, 295-315.	3.4	57
47	Partial turbulence simulation and aerodynamic pressures validation for an open-jet testing facility. Wind and Structures, an International Journal, 2014, 19, 15-33.	0.8	4
48	Wind-Loading Effects on Roof-to-Wall Connections of Timber Residential Buildings. Journal of Engineering Mechanics - ASCE, 2013, 139, 386-395.	2.9	22
49	Aerodynamic Mitigation of Roof and Wall Corner Suctions Using Simple Architectural Elements. Journal of Engineering Mechanics - ASCE, 2013, 139, 396-408.	2.9	33
50	Assessment of ASCE 7-10 Standard Methods for Determining Wind Loads. Journal of Structural Engineering, 2013, 139, 2044-2047.	3.4	12
51	Simplified Wind Flow Model for the Estimation of Aerodynamic Effects on Small Structures. Journal of Engineering Mechanics - ASCE, 2013, 139, 367-375.	2.9	14
52	Design and Fabrication of a New Open Jet Electric-Fan Wall of Wind Facility for Coastal Research. , 2013, , .		3
53	Wind loading on trees integrated with a building envelope. Wind and Structures, an International Journal, 2013, 17, 69-85.	0.8	13
54	Full Scale and Wind Tunnel Testing of Rooftop Equipment on a Flat Roof. , 2012, , .		0

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55	Full Scale and Wind Tunnel Testing of a Photovoltaic Panel Mounted on Residential Roofs. , 2012, , .		9
56	Full-scale aerodynamic testing of a loose concrete roof paver system. Engineering Structures, 2012, 44, 260-270.	5.3	32
57	A Parametric Representation of Wind-Driven Rain in Experimental Setups. , 2012, , .		4
58	A proposed technique for determining aerodynamic pressures on residential homes. Wind and Structures, an International Journal, 2012, 15, 27-41.	0.8	24
59	Florida International University's Wall of Wind: A Tool for Improving Construction Materials and Methods for Hurricane-Prone Regions. , 2011, , .		3
60	Development of Fiber-Reinforced Polymer Roof-to-Wall Connection. Journal of Composites for Construction, 2011, 15, 644-652.	3.2	7
61	Triaxial Load Testing of Metal and FRP Roof-to-Wall Connectors. Journal of Architectural Engineering, 2011, 17, 112-120.	1.6	11
62	Testing of Residential Homes under Wind Loads. Natural Hazards Review, 2011, 12, 166-170.	1.5	6
63	Study of the Capability of Multiple Mechanical Fasteners in Roof-to-Wall Connections of Timber Residential Buildings. Practice Periodical on Structural Design and Construction, 2011, 16, 2-9.	1.3	14
64	Study on Roof Vents Subjected to Simulated Hurricane Effects. Natural Hazards Review, 2011, 12, 158-165.	1.5	11
65	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
66	Computational assessment of blockage and wind simulator proximity effects for a new full-scale testing facility. Wind and Structures, an International Journal, 2010, 13, 21-36.	0.8	17
67	Performance of Roof Tiles under Simulated Hurricane Impact. Journal of Architectural Engineering, 2009, 15, 26-34.	1.6	16
68	Destructive Testing under Simulated Hurricane Effects to Promote Hazard Mitigation. Natural Hazards Review, 2009, 10, 1-10.	1.5	13
69	Full-scale validation of vortex suppression techniques for mitigation of roof uplift. Engineering Structures, 2009, 31, 2936-2946.	5.3	39
70	Application of a full-scale testing facility for assessing wind-driven-rain intrusion. Building and Environment, 2009, 44, 2430-2441.	6.9	60
71	Gust Factors and Turbulence Intensities for the Tropical Cyclone Environment. Journal of Applied Meteorology and Climatology, 2009, 48, 534-552.	1.5	33
72	Development of devices and methods for simulation of hurricane winds in a full-scale testing facility. Wind and Structures, an International Journal, 2009, 12, 151-177.	0.8	23

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73	Hurricane Wind Power Spectra, Cospectra, and Integral Length Scales. Boundary-Layer Meteorology, 2008, 129, 411-430.	2.3	80
74	Full-Scale Destructive Testing of Houses to Hurricane-Force Wind and Rain. , 2008, , .		0
75	Wall of Wind Full-Scale Destructive Testing of Coastal Houses and Hurricane Damage Mitigation. Journal of Coastal Research, 2007, 23, 1211.	0.3	27
76	Innovative testing facility to mitigate hurricane-induced losses. Eos, 2007, 88, 262-262.	0.1	2
77	Experimental identification of rational function coefficients for time-domain flutter analysis. Engineering Structures, 2005, 27, 1349-1364.	5.3	31
78	Identification of eighteen flutter derivatives of an airfoil and a bridge deck. Wind and Structures, an International Journal, 2004, 7, 187-202.	0.8	40
79	A new technique for identification of eighteen flutter derivatives using a three-degree-of-freedom section model. Engineering Structures, 2003, 25, 1763-1772.	5.3	78