# Arindam Gan Chowdhury

List of Publications by Year
in descending order

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Version: 2024-02-01

| 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 | Hurricane Wind Power Spectra, Cospectra, and Integral Length Scales. Boundary-Layer Meteorology, 2008, 129, 411-430. | 2.3 | 80 |
| 2 | 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 |
| 3 | 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 |
| 4 | Application of a full-scale testing facility for assessing wind-driven-rain intrusion. Building and Environment, 2009, 44, 2430-2441. | 6.9 | 60 |
| 5 | Influence of spacing parameters on the wind loading of solar array. Journal of Fluids and Structures, 2014, 48, 295-315. | 3.4 | 57 |
| 6 | 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 |
| 7 | 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 |
| 8 | Full-scale validation of vortex suppression techniques for mitigation of roof uplift. Engineering Structures, 2009, 31, 2936-2946. | 5.3 | 39 |
| 9 | Large-scale testing on wind uplift of roof pavers. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 128, 22-36. | 3.9 | 36 |
| 10 | 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 |
| 11 | Gust Factors and Turbulence Intensities for the Tropical Cyclone Environment. Journal of Applied Meteorology and Climatology, 2009, 48, 534-552. | 1.5 | 33 |
| 12 | Aerodynamic Mitigation of Roof and Wall Corner Suctions Using Simple Architectural Elements. Journal of Engineering Mechanics - ASCE, 2013, 139, 396-408. | 2.9 | 33 |
| 13 | Full-scale aerodynamic testing of a loose concrete roof paver system. Engineering Structures, 2012, 44, 260-270. | 5.3 | 32 |
| 14 | Experimental identification of rational function coefficients for time-domain flutter analysis. Engineering Structures, 2005, 27, 1349-1364. | 5.3 | 31 |
| 15 | 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 |
| 16 | Wall of Wind Full-Scale Destructive Testing of Coastal Houses and Hurricane Damage Mitigation. Journal of Coastal Research, 2007, 23, 1211. | 0.3 | 27 |
| 17 | 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 |
| 18 | A proposed technique for determining aerodynamic pressures on residential homes. Wind and Structures, an International Journal, 2012, 15, 27-41. | 0.8 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Wind-Loading Effects on Roof-to-Wall Connections of Timber Residential Buildings. Journal of Engineering Mechanics - ASCE, 2013, 139, 386-395. | 2.9 | 22 |
| 21 | Estimation of Wind-Driven Rain Intrusion through Building Envelope Defects and Breaches during Tropical Cyclones. Natural Hazards Review, 2015, 16, . | 1.5 | 22 |
| 22 | 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 |
| 23 | Comparisons of Two Wind Tunnel Pressure Databases and Partial Validation against Full-Scale Measurements. Journal of Structural Engineering, 2014, 140, . | 3.4 | 17 |
| 24 | 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 |
| 25 | Performance of Roof Tiles under Simulated Hurricane Impact. Journal of Architectural Engineering, 2009, 15, 26-34. | 1.6 | 16 |
| 26 | Aerodynamic Mitigation of Wind Uplift on Low-Rise Building Roof Using Large-Scale Testing. Frontiers in Built Environment, 2020, 5, . | 2.3 | 15 |
| 27 | Aeroelastic modeling to study the wind-induced response of a self-supported lattice tower. Engineering Structures, 2021, 245, 112885. | 5.3 | 15 |
| 28 | 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 |
| 29 | 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 |
| 30 | Destructive Testing under Simulated Hurricane Effects to Promote Hazard Mitigation. Natural Hazards Review, 2009, 10, 1-10. | 1.5 | 13 |
| 31 | Wind Directionality Factors for Nonhurricane and Hurricane-Prone Regions. Journal of Structural Engineering, 2015, 141, 04014208. | 3.4 | 13 |
| 32 | Characterization of wind-induced pressure on membrane roofs based on full-scale wind tunnel testing. Engineering Structures, 2021, 235, 112101. | 5.3 | 13 |
| 33 | 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 |
| 34 | Wind loading on trees integrated with a building envelope. Wind and Structures, an International Journal, 2013, 17, 69-85. | 0.8 | 13 |
| 35 | Assessment of ASCE 7-10 Standard Methods for Determining Wind Loads. Journal of Structural Engineering, 2013, 139, 2044-2047. | 3.4 | 12 |
| 36 | Household Preferences for a Hurricane Mitigation Fund in Florida. Natural Hazards Review, 2015, 16, . | 1.5 | 12 |

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|---|---|---|---|
| 37 | Simulation of Rain Penetration and Associated Damage in Buildings within a Hurricane Vulnerability Model. Natural Hazards Review, 2018, 19, . | 1.5 | 12 |
| 38 | Effects of roof geometric details on aerodynamic performance of standing seam metal roofs. Engineering Structures, 2020, 225, 111303. | 5.3 | 12 |
| 39 | Triaxial Load Testing of Metal and FRP Roof-to-Wall Connectors. Journal of Architectural Engineering, 2011, 17, 112-120. | 1.6 | 11 |
| 40 | Study on Roof Vents Subjected to Simulated Hurricane Effects. Natural Hazards Review, 2011, 12, 158-165. | 1.5 | 11 |
| 41 | Effect of wind-induced internal pressure on local frame forces of low-rise buildings. Engineering Structures, 2017, 143, 455-468. | 5.3 | 11 |
| 42 | 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 |
| 43 | Full Scale and Wind Tunnel Testing of a Photovoltaic Panel Mounted on Residential Roofs. , 2012, , . | | 9 |
| 44 | 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 |
| 45 | Wind Effects on Roofs with High-Profile Tiles: Experimental Study. Journal of Architectural Engineering, 2014, 20, . | 1.6 | 8 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Maximum grid spacing effect on peak pressure computation using inflow turbulence generators. Results in Engineering, 2022, 15, 100491. | 5.1 | 8 |
| 50 | Development of Fiber-Reinforced Polymer Roof-to-Wall Connection. Journal of Composites for Construction, 2011, 15, 644-652. | 3.2 | 7 |
| 51 | Experimental Assessment of Wind Loads on Roof-to-Wall Connections for Residential Buildings. Frontiers in Built Environment, 2020, 6, . | 2.3 | 7 |
| 52 | Testing of Residential Homes under Wind Loads. Natural Hazards Review, 2011, 12, 166-170. | 1.5 | 6 |
| 53 | Innovative Hurricane-Resistant UHPC Roof System. Journal of Architectural Engineering, 2018, 24, . | 1.6 | 6 |
| 54 | Full-Scale Testing of a Precast Concrete Supertile Roofing System for Hurricane Damage Mitigation. Journal of Architectural Engineering, 2016, 22, . | 1.6 | 5 |

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|---|---|---|---|
| 55 | Effect of assembly construction on the wind induced pressure of membrane roofs. Engineering Structures, 2020, 221, 110725. | 5.3 | 5 |
| 56 | 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 |
| 57 | Aeroelastic Testing of Span-Wire Traffic Signal Systems. Frontiers in Built Environment, 2020, 6, . | 2.3 | 4 |
| 58 | A Parametric Representation of Wind-Driven Rain in Experimental Setups. , 2012, , . | | 4 |
| 59 | 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 |
| 60 | Florida International University's Wall of Wind: A Tool for Improving Construction Materials and Methods for Hurricane-Prone Regions. , 2011, , . | | 3 |
| 61 | Design and Fabrication of a New Open Jet Electric-Fan Wall of Wind Facility for Coastal Research. , 2013, , . | | 3 |
| 62 | Innovative testing facility to mitigate hurricane-induced losses. Eos, 2007, 88, 262-262. | 0.1 | 2 |
| 63 | Design, Development, and Testing of a Composite Roofing System. Journal of Composites for Construction, 2016, 20, 04015052. | 3.2 | 2 |
| 64 | 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 |
| 65 | 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 |
| 66 | Experimental investigation of wind impact on low-rise elevated residences. Engineering Structures, 2022, 257, 114096. | 5.3 | 2 |
| 67 | Study of wind loads on asphalt shingles using full-scale experimentation. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 225, 105005. | 3.9 | 2 |
| 68 | Design Guidelines for Roof Pavers against Wind Uplift. , 2015, , . | | 1 |
| 69 | Experimental Assessment of Wind Loads on Vinyl Wall Siding. Frontiers in Built Environment, 2016, 2, . | 2.3 | 1 |
| 70 | Mitigation of Aerodynamic Uplift Loads Using Roof Integrated Wind Turbine Systems. Frontiers in Built Environment, 2019, 5, . | 2.3 | 1 |
| 71 | Full-Scale Destructive Testing of Houses to Hurricane-Force Wind and Rain. , 2008, , . | | 0 |
| 72 | Full Scale and Wind Tunnel Testing of Rooftop Equipment on a Flat Roof. , 2012, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Wind Uplift of Concrete Roof Pavers. , 2014, , . | | 0 |
| 74 | 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 |
| 75 | Estimation of Wind Loads on the Balcony Glass Handrails of Mid-Rise Buildings. , 2017, , . | | 0 |
| 76 | An Experimental Study on the Wind-Induced Response of Variable Message Signs. Frontiers in Built Environment, 2017, 3, . | 2.3 | 0 |
| 77 | Determining the Efficacy of a Retrofit Technique for Residential Buildings Using Holistic Testing. , 2020, , . | | 0 |
| 78 | Wall of Wind Research and Testing to Enhance Resilience of Civil Infrastructure to Hurricane Multi-Hazards. , 2016, , 357-379. | | 0 |
| 79 | Effects of Permeability on the Dynamic Properties and Weathertightness of Double Skin Curtain Walls. , 2022, , . | | 0 |