

# Yoshihide Tominaga

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

4,424  
citations

27  
h-index

66  
g-index

93  
ext. papers

5,274  
ext. citations

3.3  
avg, IF

6.1  
L-index

#	Paper	IF	Citations
92	Investigating threshold wind velocity for movement of sparsely distributed gravels in a wind tunnel: Effect of surface coarseness. <i>Aeolian Research</i> , <b>2022</b> , 54, 100775	3.9	
91	CFD modeling of airborne pathogen transmission of COVID-19 in confined spaces under different ventilation strategies. <i>Sustainable Cities and Society</i> , <b>2022</b> , 76, 103397	10.1	7
90	Parametric study on vertical void configurations for improving ventilation performance in the mid-rise apartment building. <i>Building and Environment</i> , <b>2022</b> , 215, 108969	6.5	1
89	ESTIMATION METHOD OF ROOF SNOW LOAD USING ACCELERATION MEASUREMENT VALIDATION FOR AN OBSERVATIONAL BUILDING MODEL. <i>Journal of Structural and Construction Engineering</i> , <b>2022</b> , 87, 524-533	0.4	
88	CFD simulation of flow fields and pollutant dispersion around a cubic building considering the effect of plume buoyancies. <i>Building and Environment</i> , <b>2021</b> , 108640	6.5	2
87	Wind tunnel measurement dataset of 3D turbulent flow around a group of generic buildings with and without a high-rise building. <i>Data in Brief</i> , <b>2021</b> , 39, 107504	1.2	0
86	METHOD TO ESTIMATE GROUND SNOW WEIGHT BASED ON METEOROLOGICAL OBSERVATION DATA AND HEAT BALANCE MODEL. <i>Journal of Structural and Construction Engineering</i> , <b>2021</b> , 86, 544-552 <sup>0.4</sup>		
85	CFD simulations of wind-induced ventilation in apartment buildings with vertical voids: Effects of pilotis and wind fin on ventilation performance. <i>Building and Environment</i> , <b>2021</b> , 194, 107666	6.5	3
84	LES analysis of turbulent fluctuation in cross-ventilation flow in highly-dense urban areas. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2021</b> , 209, 104494	3.7	7
83	DEVELOPMENT OF A SEMI-FULL-SCALE BUILDING MODEL TO OBTAIN VALIDATION DATA FOR EVALUATION MODEL OF ROOF SNOW LOAD. <i>AIJ Journal of Technology and Design</i> , <b>2021</b> , 27, 114-118	0.2	1
82	Large-eddy simulation of flow around an isolated building: A step-by-step analysis of influencing factors on turbulent statistics. <i>Building and Environment</i> , <b>2021</b> , 202, 108021	6.5	10
81	Multi-fidelity shape optimization methodology for pedestrian-level wind environment. <i>Building and Environment</i> , <b>2021</b> , 204, 108076	6.5	3
80	Wind tunnel measurement of three-dimensional turbulent flow structures around a building group: Impact of high-rise buildings on pedestrian wind environment. <i>Building and Environment</i> , <b>2021</b> , 206, 108389	6.5	4
79	BENCHMARK TEST OF FLOW FIELD AROUND A 1:1:2 SHAPED BUILDING MODEL USING LES. <i>AIJ Journal of Technology and Design</i> , <b>2020</b> , 26, 179-184	0.2	6
78	CFD analysis of cross-ventilation flow in a group of generic buildings: Comparison between steady RANS, LES and wind tunnel experiments. <i>Building Simulation</i> , <b>2020</b> , 13, 1353-1372	3.9	17
77	CFD simulations can be adequate for the evaluation of snow effects on structures. <i>Building Simulation</i> , <b>2020</b> , 13, 729-737	3.9	4
76	15th International Conference on Wind Engineering. <i>Wind Engineers JAWE</i> , <b>2020</b> , 45, 41-48	0	

75	On the Selection of Winners for Awards of JAWE in 2019. <i>Wind Engineers JAWE</i> , <b>2020</b> , 45, 298-302	0	
74	Experimental study on cross-ventilation of a generic building in highly-dense urban areas: Impact of planar area density and wind direction. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2020</b> , 196, 104030	3.7	10
73	Computational fluid dynamics simulations of snow accumulation on infrared detection sensors using discrete phase model. <i>Cold Regions Science and Technology</i> , <b>2020</b> , 180, 103167	3.8	1
72	RANS model calibration using stochastic optimization for accuracy improvement of urban airflow CFD modeling. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101756	5.2	6
71	Experimental and steady-RANS CFD modelling of cross-ventilation in moderately-dense urban areas. <i>Sustainable Cities and Society</i> , <b>2020</b> , 52, 101849	10.1	23
70	Performance evaluation of single-sided natural ventilation for generic building using large-eddy simulations: Effect of guide vanes and adjacent obstacles. <i>Building and Environment</i> , <b>2019</b> , 154, 68-80	6.5	13
69	Wind tunnel experiments on cross-ventilation flow of a generic sheltered building in urban areas. <i>Building and Environment</i> , <b>2019</b> , 158, 60-72	6.5	24
68	INVESTIGATION OF REPRODUCTION OF SNOW DISTRIBUTION ON A TWO-LEVEL FLAT-ROOF BUILDING. <i>Journal of Structural and Construction Engineering</i> , <b>2019</b> , 84, 1055-1064	0.4	1
67	CFD simulations of near-field pollutant dispersion with different plume buoyancies. <i>Building and Environment</i> , <b>2018</b> , 131, 128-139	6.5	57
66	Computational fluid dynamics simulation of snowdrift around buildings: Past achievements and future perspectives. <i>Cold Regions Science and Technology</i> , <b>2018</b> , 150, 2-14	3.8	34
65	Modelling enhancement of cross-ventilation in sheltered buildings using stochastic optimization. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 118, 758-772	4.9	23
64	7th International Symposium on Computational Wind Engineering. <i>Wind Engineers JAWE</i> , <b>2018</b> , 43, 406-414		
63	Wind tunnel experiment and CFD analysis of sand erosion/deposition due to wind around an obstacle. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2018</b> , 182, 262-271	3.7	15
62	Steady and unsteady RANS simulations of pollutant dispersion around isolated cubical buildings: Effect of large-scale fluctuations on the concentration field. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2017</b> , 165, 23-33	3.7	30
61	PROPOSAL OF AN EVALUATION METHOD FOR NATURAL CROSS-VENTILATION PERFORMANCE CONSIDERING FLOW FLUCTUATION. <i>Journal of Environmental Engineering (Japan)</i> , <b>2016</b> , 81, 589-597	0.3	2
60	VALIDATION OF PREDICTION METHOD OF ROOF SNOW DEPTH FOR AN ISOLATED GABLE-ROOF BUILDING. <i>Journal of Structural and Construction Engineering</i> , <b>2016</b> , 81, 1051-1059	0.4	1
59	INFLUENCE OF VARIOUS COMPUTATIONAL CONDITIONS IN RANS MODEL ON THE PREDICTION ACCURACY OF CONCENTRATION DISTRIBUTIONS. <i>AIJ Journal of Technology and Design</i> , <b>2016</b> , 22, 609-614	0.2	
58	Wind tunnel analysis of flow and dispersion in cross-ventilated isolated buildings: Impact of opening positions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2016</b> , 155, 74-88	3.7	53

57	Ten questions concerning modeling of near-field pollutant dispersion in the built environment. <i>Building and Environment</i> , <b>2016</b> , 105, 390-402	6.5	95
56	Wind Engineering and Globalization <i>Wind Engineers JAWE</i> , <b>2016</b> , 41, 1-2	0	
55	Review of CFD Guidelines for Dispersion Modeling. <i>Fluids</i> , <b>2016</b> , 1, 14	1.6	20
54	Wind tunnel experiments on cross-ventilation flow of a generic building with contaminant dispersion in unsheltered and sheltered conditions. <i>Building and Environment</i> , <b>2015</b> , 92, 452-461	6.5	74
53	Flow around a high-rise building using steady and unsteady RANS CFD: Effect of large-scale fluctuations on the velocity statistics. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2015</b> , 142, 93-103	3.7	75
52	CFD simulations of the effect of evaporative cooling from water bodies in a micro-scale urban environment: Validation and application studies. <i>Sustainable Cities and Society</i> , <b>2015</b> , 19, 259-270	10.1	52
51	Development of a new k $\epsilon$ model to reproduce the aerodynamic effects of snow particles on a flow field. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2015</b> , 144, 118-124	3.7	12
50	Air flow around isolated gable-roof buildings with different roof pitches: Wind tunnel experiments and CFD simulations. <i>Building and Environment</i> , <b>2015</b> , 84, 204-213	6.5	127
49	ANALYSIS OF CROSS VENTILATION AIRFLOW IN AND AROUND SIMPLE HOUSE MODEL CONSIDERING FLOW FLUCTUATION. <i>Journal of Environmental Engineering (Japan)</i> , <b>2015</b> , 80, 925-934	0.3	2
48	VISUALIZATION AND MEASUREMENTS FOR FLUCTUATING CROSS VENTILATION AIRFLOW IN SIMPLE HOUSE MODEL USING LARGE-SIZE BOUNDARY LAYER WIND TUNNEL. <i>Journal of Environmental Engineering (Japan)</i> , <b>2015</b> , 80, 127-137	0.3	5
47	. <i>Wind Engineers JAWE</i> , <b>2015</b> , 40, 424-425	0	
46	Recommendation of Gust Factor for Assessment of Pedestrian Wind Environment Based on Probability of Exceedance of Daily Maximum Gust Wind Speed. <i>Journal of Wind Engineering</i> , <b>2014</b> , 39, 29-39	0.3	1
45	PIV measurements of saltating snow particle velocity in a boundary layer developed in a wind tunnel. <i>Journal of Visualization</i> , <b>2013</b> , 16, 95-98	1.6	10
44	CFD simulation of near-field pollutant dispersion in the urban environment: A review of current modeling techniques. <i>Atmospheric Environment</i> , <b>2013</b> , 79, 716-730	5.3	276
43	Cross Comparisons of CFD Results of Wind and Dispersion Fields for MUST Experiment: Evaluation Exercises by AIJ. <i>Journal of Asian Architecture and Building Engineering</i> , <b>2013</b> , 12, 117-124	1	9
42	DEVELOPMENT OF NEW SNOWDRIFT MODEL BASED ON TWO TRANSPORT EQUATIONS OF DRIFTING SNOW DENSITY. <i>Journal of Environmental Engineering (Japan)</i> , <b>2013</b> , 78, 149-156	0.3	4
41	Hazards Caused by Drifting Snow due to Wind in Living Environment : Prediction of Snowdrift in Built-up Environment. <i>Journal of the Society of Mechanical Engineers</i> , <b>2013</b> , 116, 470-473	0	
40	7th International Colloquium on Bluff Body Aerodynamics and Applications. <i>Wind Engineers JAWE</i> , <b>2013</b> , 38, 52-65	0	1

39	CFD Modeling of Pollution Dispersion in Building Array: Evaluation of turbulent scalar flux modeling in RANS model using LES results. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2012</b> , 104-106, 484-491	3.7	70
38	Wind tunnel investigation of drifting snow development in a boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2012</b> , 104-106, 532-539	3.7	39
37	Visualization of city breathability based on CFD technique: case study for urban blocks in Niigata City. <i>Journal of Visualization</i> , <b>2012</b> , 15, 269-276	1.6	27
36	?????????????????????. <i>Wind Engineers JAWE</i> , <b>2012</b> , 37, 332-332	0	
35	13th International Conference on Wind Engineering. <i>Wind Engineers JAWE</i> , <b>2011</b> , 36, 406-428	0	2
34	CFD modeling of snowdrift around a building: An overview of models and evaluation of a new approach. <i>Building and Environment</i> , <b>2011</b> , 46, 899-910	6.5	79
33	Development of a system for predicting snow distribution in built-up environments: Combining a mesoscale meteorological model and a CFD model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2011</b> , 99, 460-468	3.7	32
32	CFD modeling of pollution dispersion in a street canyon: Comparison between LES and RANS. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2011</b> , 99, 340-348	3.7	192
31	Up-scaling CWE models to include mesoscale meteorological influences. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2011</b> , 99, 187-198	3.7	26
30	CFD AND HEAT BALANCE ANALYSES ON RELATIONSHIP BETWEEN RESIDENTIAL BUILDING ARRANGEMENT AND SNOW DISTRIBUTION. <i>Journal of Environmental Engineering (Japan)</i> , <b>2010</b> , 75, 113-119	0.3	19
29	DEVELOPMENT OF BURIED TYPE SNOW-MELTING TANK FOR REMOVING SNOW PILED BY PLOW MACHINE IN FRONT OF RESIDENTIAL HOUSE. <i>AIJ Journal of Technology and Design</i> , <b>2010</b> , 16, 321-324	0.2	
28	Numerical simulation of dispersion around an isolated cubic building: Model evaluation of RANS and LES. <i>Building and Environment</i> , <b>2010</b> , 45, 2231-2239	6.5	189
27	Numerical simulation of dispersion around an isolated cubic building: Comparison of various types of k-ε models. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3200-3210	5.3	143
26	BASIC INVESTIGATION OF MODELING FOR EROSION AND ACCUMULATION ON SNOW SURFACE. <i>Journal of Environmental Engineering (Japan)</i> , <b>2009</b> , 74, 1083-1089	0.3	1
25	LES Analysis of Urban Environment- Progress in the field of building environmental engineering over the past 20 years -. <i>Wind Engineers JAWE</i> , <b>2009</b> , 34, 416-425	0	1
24	INFLUENCE OF TURBULENCE MODELS AND TURBULENT SCHMIDT NUMBER FOR AN ISOLATED BUILDING. <i>Journal of Environmental Engineering (Japan)</i> , <b>2008</b> , 73, 991-997	0.3	
23	Comparison of various revised k-ε models and LES applied to flow around a high-rise building model with 1:1:2 shape placed within the surface boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2008</b> , 96, 389-411	3.7	236
22	AIJ guidelines for practical applications of CFD to pedestrian wind environment around buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2008</b> , 96, 1749-1761	3.7	1124

21	Wind tunnel tests on the relationship between building density and pedestrian-level wind velocity: Development of guidelines for realizing acceptable wind environment in residential neighborhoods. <i>Building and Environment</i> , <b>2008</b> , 43, 1699-1708	6.5	198
20	CFD analyses of pollutant transport in street canyons: a review. <i>Wind Engineers JAWE</i> , <b>2008</b> , 2008, 307-312		
19	Cooperative project for CFD prediction of pedestrian wind environment in the Architectural Institute of Japan. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2007</b> , 95, 1551-1578	3.7	268
18	Turbulent Schmidt numbers for CFD analysis with various types of flowfield. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 8091-8099	5.3	301
17	Coupled Analysis of CFD and Mesoscale Models applied to Wind Environment Problem. <i>Wind Engineers JAWE</i> , <b>2006</b> , 2006, 121-126	0	2
16	TA4 CFD Guideline for Pedestrian Wind Environment (Organized session). <i>Wind Engineers JAWE</i> , <b>2006</b> , 2006, 529-536	0	23
15	Cross Comparisons of CFD Results of Wind Environment at Pedestrian Level around a High-rise Building and within a Building Complex. <i>Journal of Asian Architecture and Building Engineering</i> , <b>2004</b> , 3, 63-70	1	58
14	EFFECT OF PERIODIC FLUCTUATION BEHIND BUILDING ON REATTACHMENT LENGTH : Large eddy simulation of flowfield around a high-rise building (Part 1). <i>Journal of Environmental Engineering (Japan)</i> , <b>2004</b> , 69, 45-51	0.3	3
13	DEVELOPMENT OF CFD METHOD FOR PREDICTING WIND ENVIRONMENT AROUND A HIGH-RISE BUILDING : Part2 : The cross comparison of CFD results using various k- $\epsilon$ models for the flowfield around a building model with 4:4:1 shape(Environmental Engineering). <i>AIJ Journal of Technology and Design</i> , <b>2003</b> , 9, 169-174	0.2	14
12	Numerical Study on Thermal Effects of Cold and High-albedo Surfaces Covered with Snow in Outdoor Environments. <i>Journal of Asian Architecture and Building Engineering</i> , <b>2002</b> , 1, 175-182	1	2
11	Numerical Analysis of Wind Environment and Snowdrift around Building Complex based on CFD and CG Techniques. <i>Journal of Snow Engineering of Japan</i> , <b>2002</b> , 18, 3-11		3
10	STANDARDS OF GROSS BUILDINGS COVERAGE RATIO IN MAJOR CITIES FOR THE PLANNING OF RESIDENTIAL AREA IN CONSIDERATION OF WIND FLOW : Effects of arrangement and structural patterns of buildings on the nature of regional wind flow Part2. <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , <b>2002</b> , 67, 47-54	0.2	12
9	COMPARISON OF PERFORMANCE OF VARIOUS REVISED k- $\epsilon$ MODELS APPLIED TO CFD ANALYSIS OF FLOWFIELD AROUND A HIGH-RISE BUILDING. <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , <b>2002</b> , 67, 47-54	0.2	6
8	STUDY ON THE ASSESSMENT METHODS AND CRITERIA RELATING TO THE WIND ENVIRONMENT ON NIIGATA CITY. <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , <b>2002</b> , 67, 41-46	0.2	
7	INFLUENCE OF GREEN AREA RATIO ON OUTDOOR THERMAL ENVIRONMENT WITH COUPLED SIMULATION OF CONVECTION, RADIATION AND MOISTURE TRANSPORT. <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , <b>2000</b> , 65, 77-84	0.2	11
6	WIND TUNNEL TESTS ON THE NATURE OF REGIONAL WIND FLOW IN THE 270m SQUARE RESIDENTIAL AREA, USING THE REAL MODEL : Effects of arrangement and structural patterns of buildings on the nature of regional wind flow Part 1. <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , <b>2000</b> , 65, 109-116	0.2	11
5	CFD prediction of flowfield and snowdrift around a building complex in a snowy region. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>1999</b> , 81, 273-282	3.7	29
4	CFD prediction of gaseous diffusion around a cubic model using a dynamic mixed SGS model based on composite grid technique. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>1997</b> , 67-68, 827-841	3.7	35

3	COMPARISON BETWEEN STANDARD AND DYNAMIC TYPE OF SMAGORINSKY SGS MODEL : Large eddy simulation of turbulent vortex shedding flow past 2D square cylinder using Dynamic SGS model (Part 1). <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , <b>1996</b> , 61, 41-47	0.2	6
2	Performance of New Wind Tunnel of Niigata Institute of Technology. <i>Wind Engineers JAWE</i> , <b>1996</b> , 1996, 95-106	0	9
1	Velocity-pressure field of cross ventilation with open windows analyzed by wind tunnel and numerical simulation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>1992</b> , 44, 2575-2586	3.7	93