

# Aya Hagishima

## 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.

91  
papers

2,295  
citations

27  
h-index

46  
g-index

92  
ext. papers

2,615  
ext. citations

3.6  
avg, IF

5.22  
L-index

#	Paper	IF	Citations
91	Seasonal variation of residential cooling use behaviour derived from energy demand data and stochastic building energy simulation. <i>Journal of Building Engineering</i> , <b>2022</b> , 49, 104067	5.2	1
90	Indoor thermal environment of Mongolian traditional mobile housing used as urban habitat in winter. <i>Journal of Building Engineering</i> , <b>2022</b> , 48, 103927	5.2	0
89	Associating thermal comfort and preference in Malaysian universities' air-conditioned office rooms under various set-point temperatures. <i>Journal of Building Engineering</i> , <b>2022</b> , 104575	5.2	0
88	Multi-Task Learning for Concurrent Prediction of Thermal Comfort, Sensation and Preference in Winters. <i>Buildings</i> , <b>2022</b> , 12, 750	3.2	1
87	Heat health risk assessment analysing heatstroke patients in Fukuoka City, Japan. <i>PLoS ONE</i> , <b>2021</b> , 16, e0253011	3.7	6
86	Relation between occupants' health problems, demographic and indoor environment subjective evaluations: A cross-sectional questionnaire survey study in Java Island, Indonesia. <i>PLoS ONE</i> , <b>2021</b> , 16, e0254460	3.7	0
85	Calculation Method for Electricity Price and Rebate Level in Demand Response Programs. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6871	2.6	3
84	Hypothetical assessment of efficiency, willingness-to-accept and willingness-to-pay for dengue vaccine and treatment: a contingent valuation survey in Bangladesh. <i>Human Vaccines and Immunotherapeutics</i> , <b>2021</b> , 17, 773-784	4.4	1
83	Effectiveness of a Cool Bed Linen for Thermal Comfort and Sleep Quality in Air-Conditioned Bedroom under Hot-Humid Climate. <i>Sustainability</i> , <b>2021</b> , 13, 9099	3.6	1
82	Evaluation of exceeding wind speed at a pedestrian level around a 1:1:2 isolated block model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2020</b> , 201, 104193	3.7	6
81	Affordable retrofitting methods to achieve thermal comfort for a terrace house in Malaysia with a hot humid climate. <i>Energy and Buildings</i> , <b>2020</b> , 223, 110072	7	12
80	Outdoor measurements of relationship between canopy flow and wall pressure distributions of a block within urban-like block array. <i>Building and Environment</i> , <b>2020</b> , 176, 106881	6.5	9
79	On-site measurement and evaluations of indoor thermal environment in low-cost dwellings of urban Kampung district. <i>Building and Environment</i> , <b>2020</b> , 184, 107239	6.5	1
78	A simplified numerical model for evaporative cooling by water spray over roof surfaces. <i>Applied Thermal Engineering</i> , <b>2020</b> , 165, 114514	5.8	14
77	Characteristics of wind speed during rainfall event in the tropical urban city. <i>Urban Climate</i> , <b>2020</b> , 32, 100620	6.8	6
76	Effectiveness of free running passive cooling strategies for indoor thermal environments: Example from a two-storey corner terrace house in Malaysia. <i>Building and Environment</i> , <b>2019</b> , 160, 106214	6.5	13
75	Outdoor measurement of wall pressure on cubical scale model affected by atmospheric turbulent flow. <i>Building and Environment</i> , <b>2019</b> , 160, 106170	6.5	5

74	Time-resolved particle image velocimetry for cross-ventilation flow of generic block sheltered by urban-like block arrays. <i>Building and Environment</i> , <b>2019</b> , 147, 132-145	6.5	19
73	Green infrastructure and urban sustainability <b>2018</b> ,		3
72	Coupled Simulations of Indoor-Outdoor Flow Fields for Cross-Ventilation of a Building in a Simplified Urban Array. <i>Atmosphere</i> , <b>2018</b> , 9, 217	2.7	7
71	A new semi-empirical model for estimating the drag coefficient of the vertical random staggered arrays using LES. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2018</b> , 180, 191-200	3.7	5
70	Velocity and scalar concentrations with low occurrence frequencies within urban canopy regions in a neutrally stable shear flow over simplified urban arrays. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2018</b> , 182, 286-294	3.7	7
69	A prediction model for wind speed ratios at pedestrian level with simplified urban canopies. <i>Theoretical and Applied Climatology</i> , <b>2017</b> , 127, 655-665	3	19
68	Development of a model for generating air-conditioner operation schedules in Malaysia. <i>Building and Environment</i> , <b>2017</b> , 122, 354-362	6.5	21
67	Adaptive thermal comfort in university classrooms in Malaysia and Japan. <i>Building and Environment</i> , <b>2017</b> , 122, 294-306	6.5	81
66	Evaluation of rare velocity at a pedestrian level due to turbulence in a neutrally stable shear flow over simplified urban arrays. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2017</b> , 171, 137-147	2.7	17
65	Thermal comfort and occupant adaptive behaviour in Japanese university buildings with free running and cooling mode offices during summer. <i>Building and Environment</i> , <b>2016</b> , 105, 332-342	6.5	93
64	Effect of turbulent flow on wall pressure coefficients of block arrays within urban boundary layer. <i>Building and Environment</i> , <b>2016</b> , 100, 28-39	6.5	23
63	Determination of aerodynamic parameters of urban surfaces: methods and results revisited. <i>Theoretical and Applied Climatology</i> , <b>2015</b> , 122, 635-649	3	11
62	Wind-Tunnel Study of Scalar Transfer Phenomena for Surfaces of Block Arrays and Smooth Walls with Dry Patches. <i>Boundary-Layer Meteorology</i> , <b>2015</b> , 157, 219-236	3.4	7
61	Acquisition of the field measurement data relating to lane change actions. <i>International Journal of Modern Physics C</i> , <b>2015</b> , 26, 1550072	1.1	4
60	Risk assessment for infectious disease and its impact on voluntary vaccination behavior in social networks. <i>Chaos, Solitons and Fractals</i> , <b>2014</b> , 68, 1-9	9.3	70
59	A CONSIDERATION ON THE EFFECTS OF DRAG FORCE ACTING ON ROUGHNESS ELEMENT. <i>Journal of Environmental Engineering (Japan)</i> , <b>2014</b> , 79, 297-304	0.3	1
58	Effect of a large gaming neighborhood and a strategy adaptation neighborhood for bolstering network reciprocity in a prisoner's dilemma game. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P12024	1.9	25
57	Dangerous drivers foster social dilemma structures hidden behind a traffic flow with lane changes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P11027	1.9	24

56	Social dilemma structures hidden behind traffic flow with lane changes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P07019	1.9	15
55	Willingness to pay for improvements in environmental performance of residential buildings. <i>Building and Environment</i> , <b>2013</b> , 60, 225-233	6.5	24
54	The evolution of fairness in the coevolutionary ultimatum games. <i>Chaos, Solitons and Fractals</i> , <b>2013</b> , 56, 13-18	9.3	21
53	Analysis of airflow over building arrays for assessment of urban wind environment. <i>Building and Environment</i> , <b>2013</b> , 59, 56-65	6.5	125
52	Total utility demand prediction for multi-dwelling sites by a bottom-up approach considering variations of inhabitants' behaviour schedules. <i>Journal of Building Performance Simulation</i> , <b>2013</b> , 6, 53-64 <sup>2.8</sup>		8
51	Influence of stochastic perturbation of both action updating and strategy updating in mixed-strategy 2D games on evolution of cooperation. <i>Physical Review E</i> , <b>2013</b> , 88, 062149	2.4	6
50	Direct reciprocity in spatial populations enhances R-reciprocity as well as ST-reciprocity. <i>PLoS ONE</i> , <b>2013</b> , 8, e71961	3.7	17
49	Experimental study of wind-induced ventilation in urban building of cube arrays with various layouts. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2012</b> , 103, 31-40	3.7	36
48	Spatially correlated heterogeneous aspirations to enhance network reciprocity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 680-685	3.3	30
47	Geometric Dependence of the Scalar Transfer Efficiency over Rough Surfaces. <i>Boundary-Layer Meteorology</i> , <b>2012</b> , 143, 357-377	3.4	15
46	Effect of urban vegetation on outdoor thermal environment: Field measurement at a scale model site. <i>Building and Environment</i> , <b>2012</b> , 56, 38-46	6.5	108
45	Referring to the social performance promotes cooperation in spatial prisoner's dilemma games. <i>Physical Review E</i> , <b>2012</b> , 86, 031141	2.4	90
44	State transition stochastic model for predicting off to on cooling schedule in dwellings as implemented using a multilayered artificial neural network. <i>Journal of Building Performance Simulation</i> , <b>2012</b> , 5, 45-53	2.8	6
43	Does copy-resistance enhance cooperation in spatial prisoner's dilemma?. <i>Europhysics Letters</i> , <b>2012</b> , 98, 40008	1.6	16
42	QUESTIONNAIRE SURVEY ON PREFERENCE OF ENVIRONMENTAL FACTORS OF RESIDENTIAL BUILDINGS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2012</b> , 77, 523-531	0.3	
41	A STUDY ON THE SIMILARITY OF THE MOMENTUM AND SCALAR ROUGHNESS LENGTHS OVER URBAN-LIKE ROUGHNESS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2012</b> , 77, 917-923	0.3	
40	RESEARCH ON SOCIAL VALUE MEASUREMENT OF GLOBAL WARMING AND HEAT ISLAND COUNTERMEASURES APPLIED CONJOINT ANALYSIS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2011</b> , 76, 211-219	0.3	
39	TOTAL UTILITY DEMAND PREDICTION CONSIDERING VARIATION OF OCCUPANTS' BEHAVIOR SCHEDULES APPLIED TO MULTI DWELLINGS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2011</b> , 76, 141-149	0.3	1

38	WIND TUNNEL EXPERIMENT ON EFFECT OF SHAPE OF AN OBSTACLE ON TOTAL DRAG FORCE OF REGULAR ARRAY. <i>Journal of Environmental Engineering (Japan)</i> , <b>2011</b> , 76, 485-492	0.3	
37	EFFECTS ON BULK SCALAR COEFFICIENT OF WIND ANGLE, DEVELOPMENT OF SCALAR BOUNDARY LAYER, AND FLOW FIELD NEAR ROUGHNESS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2011</b> , 76, 67-73	0.3	1
36	OPTIMIZATION OF MODEL COEFFICIENTS FOR DIFFERENT CONFIGURATIONS AND DENSITIES OF CAR MOLDS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2011</b> , 76, 831-837	0.3	1
35	Aerodynamic Parameters of Urban Building Arrays with Random Geometries. <i>Boundary-Layer Meteorology</i> , <b>2011</b> , 138, 99-120	3.4	62
34	An analysis of network reciprocity in Prisoner's Dilemma games using Full Factorial Designs of Experiment. <i>BioSystems</i> , <b>2011</b> , 103, 85-92	1.9	43
33	A new Cellular Automata Model including a decelerating damping effect to reproduce Kerner's three-phase theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 561-568	3.3	48
32	ANALYSIS OF THE INFLUENCE OF LANE CHANGING ON TRAFFIC-FLOW DYNAMICS BASED ON THE CELLULAR AUTOMATON MODEL. <i>International Journal of Modern Physics C</i> , <b>2011</b> , 22, 271-281	1.1	26
31	A REVISED STOCHASTIC OPTIMAL VELOCITY MODEL CONSIDERING THE VELOCITY GAP WITH A PRECEDING VEHICLE. <i>International Journal of Modern Physics C</i> , <b>2011</b> , 22, 1005-1014	1.1	3
30	Total utility demand prediction system for dwellings based on stochastic processes of actual inhabitants. <i>Journal of Building Performance Simulation</i> , <b>2010</b> , 3, 155-167	2.8	21
29	Dilemma game structure hidden in traffic flow at a bottleneck due to a 2 into 1 lane junction. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2010</b> , 389, 5353-5361	3.3	44
28	Study of bottleneck effect at an emergency evacuation exit using cellular automata model, mean field approximation analysis, and game theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2010</b> , 389, 5611-5618	3.3	107
27	What controls network reciprocity in the Prisoner's Dilemma game?. <i>BioSystems</i> , <b>2010</b> , 102, 82-7	1.9	39
26	Dilemma game structure observed in traffic flow at a 2-to-1 lane junction. <i>Physical Review E</i> , <b>2009</b> , 79, 036104	2.4	41
25	Aerodynamic Parameters of Regular Arrays of Rectangular Blocks with Various Geometries. <i>Boundary-Layer Meteorology</i> , <b>2009</b> , 132, 315-337	3.4	126
24	Estimation of passive cooling efficiency for environmental design in Brazil. <i>Energy and Buildings</i> , <b>2009</b> , 41, 809-813	7	12
23	TOTAL UTILITY DEMAND PREDICTION CONSIDERING VARIATION OF OCCUPANTS' BEHAVIOR SCHEDULES. <i>Journal of Environmental Engineering (Japan)</i> , <b>2009</b> , 74, 579-586	0.3	1
22	A STUDY ON THE BOTTLENECK EFFECT OBSERVED IN AN EMERGENCY EVACUATION EXIT EMPLOYED BY MULTI-AGENT SIMULATION AND MEAN-FIELD APPROXIMATION ANALYSIS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2009</b> , 74, 753-757	0.3	1
21	A STOCHASTIC MODEL TO PREDICT OFF/ON COOLING SCHEDULE IN DWELLINGS APPLIED BY MULTILAYERED NEURAL NETWORK. <i>Journal of Environmental Engineering (Japan)</i> , <b>2009</b> , 74, 937-942	0.3	2

20	Anthropogenic water vapor emissions in Tokyo. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	45
19	Validation of methodology for utility demand prediction considering actual variations in inhabitant behaviour schedules. <i>Journal of Building Performance Simulation</i> , <b>2008</b> , 1, 31-42	2.8	23
18	A RESEARCH ON THE UNIVERSAL MODEL OF ENVIRONMENTAL DILEMMA GAME BASED ON 2D GAME CONSTRAINED WITH THE EXOGENOUS RESOURCE RESTRICTION. <i>Journal of Environmental Engineering (Japan)</i> , <b>2008</b> , 73, 831-838	0.3	
17	WIND TUNNEL EXPERIMENT ON BULK SCALAR COEFFICIENT OF URBAN-LIKE ROUGHNESS. <i>Journal of Environmental Engineering (Japan)</i> , <b>2008</b> , 73, 1225-1231	0.3	2
16	FIELD MEASUREMENT ON DISTRIBUTION OF CONVECTIVE HEAT TRANSFER COEFFICIENT WITHIN A REAL-SCALE URBAN CANOPY. <i>Journal of Environmental Engineering (Japan)</i> , <b>2008</b> , 73, 511-518	0.3	4
15	A methodology for peak energy requirement considering actual variation of occupants' behavior schedules. <i>Building and Environment</i> , <b>2008</b> , 43, 610-619	6.5	61
14	Validation of probabilistic methodology for generating actual inhabitants' behavior schedules for accurate prediction of maximum energy requirements. <i>Energy and Buildings</i> , <b>2008</b> , 40, 316-322	7	34
13	Temperature and Wind Distribution in an E-W-Oriented Urban Street Canyon. <i>Scientific Online Letters on the Atmosphere</i> , <b>2008</b> , 4, 53-56	2.1	7
12	Field experiment on transpiration from isolated urban plants. <i>Hydrological Processes</i> , <b>2007</b> , 21, 1217-1223	3.3	52
11	Validation of a numerical model for urban energy-exchange using outdoor scale-model measurements. <i>International Journal of Climatology</i> , <b>2007</b> , 27, 1931-1942	3.5	27
10	Evaluation of coupled outdoor and indoor thermal comfort environment and anthropogenic heat. <i>Building and Environment</i> , <b>2007</b> , 42, 1018-1025	6.5	22
9	A STUDY ON MULTI-AGENT SIMULATION MODEL FOR TRANSIENT DYNAMICS AND DISTRIBUTION OF THE POPULATION IN AN URBAN AREA. <i>AIJ Journal of Technology and Design</i> , <b>2007</b> , 13, 845-848	0.2	2
8	Evaluating the Impact of Solar Radiation on Outdoor Thermal Comfort by the Development and Validation of a Simple Urban Climatic Model <b>2006</b> , 515		1
7	State transition probability for the Markov Model dealing with on/off cooling schedule in dwellings. <i>Energy and Buildings</i> , <b>2005</b> , 37, 181-187	7	46
6	Investigations of urban surface conditions for urban canopy model. <i>Building and Environment</i> , <b>2005</b> , 40, 1638-1650	6.5	9
5	A Simple Energy Balance Model for Regular Building Arrays. <i>Boundary-Layer Meteorology</i> , <b>2005</b> , 116, 423-443	3.4	117
4	Intercomparisons of Experimental Convective Heat Transfer Coefficients and Mass Transfer Coefficients of Urban Surfaces. <i>Boundary-Layer Meteorology</i> , <b>2005</b> , 117, 551-576	3.4	42
3	An approach for coupled simulation of building thermal effects and urban climatology. <i>Energy and Buildings</i> , <b>2004</b> , 36, 781-793	7	35

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| 2 | A computer system to support Albedo Calculation in urban areas. <i>Building and Environment</i> , <b>2004</b> , 39, 1213-1221                                | 6.5 | 27  |
| 1 | Field measurements for estimating the convective heat transfer coefficient at building surfaces. <i>Building and Environment</i> , <b>2003</b> , 38, 873-881 | 6.5 | 126 |