

Aya Hagishima

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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	Aerodynamic Parameters of Regular Arrays of Rectangular Blocks with Various Geometries. <i>Boundary-Layer Meteorology</i> , 2009 , 132, 315-337	3.4	126
90	Field measurements for estimating the convective heat transfer coefficient at building surfaces. <i>Building and Environment</i> , 2003 , 38, 873-881	6.5	126
89	Analysis of airflow over building arrays for assessment of urban wind environment. <i>Building and Environment</i> , 2013 , 59, 56-65	6.5	125
88	A Simple Energy Balance Model for Regular Building Arrays. <i>Boundary-Layer Meteorology</i> , 2005 , 116, 423-443	3.4	117
87	Effect of urban vegetation on outdoor thermal environment: Field measurement at a scale model site. <i>Building and Environment</i> , 2012 , 56, 38-46	6.5	108
86	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> , 2010 , 389, 5611-5618	3.3	107
85	Thermal comfort and occupant adaptive behaviour in Japanese university buildings with free running and cooling mode offices during summer. <i>Building and Environment</i> , 2016 , 105, 332-342	6.5	93
84	Referring to the social performance promotes cooperation in spatial prisoner's dilemma games. <i>Physical Review E</i> , 2012 , 86, 031141	2.4	90
83	Adaptive thermal comfort in university classrooms in Malaysia and Japan. <i>Building and Environment</i> , 2017 , 122, 294-306	6.5	81
82	Risk assessment for infectious disease and its impact on voluntary vaccination behavior in social networks. <i>Chaos, Solitons and Fractals</i> , 2014 , 68, 1-9	9.3	70
81	Aerodynamic Parameters of Urban Building Arrays with Random Geometries. <i>Boundary-Layer Meteorology</i> , 2011 , 138, 99-120	3.4	62
80	A methodology for peak energy requirement considering actual variation of occupants behavior schedules. <i>Building and Environment</i> , 2008 , 43, 610-619	6.5	61
79	Field experiment on transpiration from isolated urban plants. <i>Hydrological Processes</i> , 2007 , 21, 1217-1223	3.3	52
78	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> , 2011 , 390, 561-568	3.3	48
77	State transition probability for the Markov Model dealing with on/off cooling schedule in dwellings. <i>Energy and Buildings</i> , 2005 , 37, 181-187	7	46
76	Anthropogenic water vapor emissions in Tokyo. <i>Water Resources Research</i> , 2008 , 44,	5.4	45
75	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> , 2010 , 389, 5353-5361	3.3	44

74	An analysis of network reciprocity in Prisoner's Dilemma games using Full Factorial Designs of Experiment. <i>BioSystems</i> , 2011 , 103, 85-92	1.9	43
73	Intercomparisons of Experimental Convective Heat Transfer Coefficients and Mass Transfer Coefficients of Urban Surfaces. <i>Boundary-Layer Meteorology</i> , 2005 , 117, 551-576	3.4	42
72	Dilemma game structure observed in traffic flow at a 2-to-1 lane junction. <i>Physical Review E</i> , 2009 , 79, 036104	2.4	41
71	What controls network reciprocity in the Prisoner's Dilemma game?. <i>BioSystems</i> , 2010 , 102, 82-7	1.9	39
70	Experimental study of wind-induced ventilation in urban building of cube arrays with various layouts. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012 , 103, 31-40	3.7	36
69	An approach for coupled simulation of building thermal effects and urban climatology. <i>Energy and Buildings</i> , 2004 , 36, 781-793	7	35
68	Validation of probabilistic methodology for generating actual inhabitants behavior schedules for accurate prediction of maximum energy requirements. <i>Energy and Buildings</i> , 2008 , 40, 316-322	7	34
67	Spatially correlated heterogeneous aspirations to enhance network reciprocity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 680-685	3.3	30
66	Validation of a numerical model for urban energy-exchange using outdoor scale-model measurements. <i>International Journal of Climatology</i> , 2007 , 27, 1931-1942	3.5	27
65	A computer system to support Albedo Calculation in urban areas. <i>Building and Environment</i> , 2004 , 39, 1213-1221	6.5	27
64	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> , 2011 , 22, 271-281	1.1	26
63	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> , 2014 , 2014, P12024	1.9	25
62	Willingness to pay for improvements in environmental performance of residential buildings. <i>Building and Environment</i> , 2013 , 60, 225-233	6.5	24
61	Dangerous drivers foster social dilemma structures hidden behind a traffic flow with lane changes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P11027	1.9	24
60	Effect of turbulent flow on wall pressure coefficients of block arrays within urban boundary layer. <i>Building and Environment</i> , 2016 , 100, 28-39	6.5	23
59	Validation of methodology for utility demand prediction considering actual variations in inhabitant behaviour schedules. <i>Journal of Building Performance Simulation</i> , 2008 , 1, 31-42	2.8	23
58	Evaluation of coupled outdoor and indoor thermal comfort environment and anthropogenic heat. <i>Building and Environment</i> , 2007 , 42, 1018-1025	6.5	22
57	Development of a model for generating air-conditioner operation schedules in Malaysia. <i>Building and Environment</i> , 2017 , 122, 354-362	6.5	21

56	The evolution of fairness in the coevolutionary ultimatum games. <i>Chaos, Solitons and Fractals</i> , 2013 , 56, 13-18	9.3	21
55	Total utility demand prediction system for dwellings based on stochastic processes of actual inhabitants. <i>Journal of Building Performance Simulation</i> , 2010 , 3, 155-167	2.8	21
54	A prediction model for wind speed ratios at pedestrian level with simplified urban canopies. <i>Theoretical and Applied Climatology</i> , 2017 , 127, 655-665	3	19
53	Time-resolved particle image velocimetry for cross-ventilation flow of generic block sheltered by urban-like block arrays. <i>Building and Environment</i> , 2019 , 147, 132-145	6.5	19
52	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> , 2017 , 171, 137-147	3.7	17
51	Direct reciprocity in spatial populations enhances R-reciprocity as well as ST-reciprocity. <i>PLoS ONE</i> , 2013 , 8, e71961	3.7	17
50	Does copy-resistance enhance cooperation in spatial prisoner's dilemma?. <i>Europhysics Letters</i> , 2012 , 98, 40008	1.6	16
49	Social dilemma structures hidden behind traffic flow with lane changes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P07019	1.9	15
48	Geometric Dependence of the Scalar Transfer Efficiency over Rough Surfaces. <i>Boundary-Layer Meteorology</i> , 2012 , 143, 357-377	3.4	15
47	A simplified numerical model for evaporative cooling by water spray over roof surfaces. <i>Applied Thermal Engineering</i> , 2020 , 165, 114514	5.8	14
46	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> , 2019 , 160, 106214	6.5	13
45	Estimation of passive cooling efficiency for environmental design in Brazil. <i>Energy and Buildings</i> , 2009 , 41, 809-813	7	12
44	Affordable retrofitting methods to achieve thermal comfort for a terrace house in Malaysia with a hot/humid climate. <i>Energy and Buildings</i> , 2020 , 223, 110072	7	12
43	Determination of aerodynamic parameters of urban surfaces: methods and results revisited. <i>Theoretical and Applied Climatology</i> , 2015 , 122, 635-649	3	11
42	Investigations of urban surface conditions for urban canopy model. <i>Building and Environment</i> , 2005 , 40, 1638-1650	6.5	9
41	Outdoor measurements of relationship between canopy flow and wall pressure distributions of a block within urban-like block array. <i>Building and Environment</i> , 2020 , 176, 106881	6.5	9
40	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> , 2013 , 6, 53-64	2.8	8
39	Wind-Tunnel Study of Scalar Transfer Phenomena for Surfaces of Block Arrays and Smooth Walls with Dry Patches. <i>Boundary-Layer Meteorology</i> , 2015 , 157, 219-236	3.4	7

38	Coupled Simulations of Indoor-Outdoor Flow Fields for Cross-Ventilation of a Building in a Simplified Urban Array. <i>Atmosphere</i> , 2018 , 9, 217	2.7	7
37	Temperature and Wind Distribution in an E-W-Oriented Urban Street Canyon. <i>Scientific Online Letters on the Atmosphere</i> , 2008 , 4, 53-56	2.1	7
36	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> , 2018 , 182, 286-294	3.7	7
35	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> , 2020 , 201, 104193	3.7	6
34	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> , 2013 , 88, 062149	2.4	6
33	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> , 2012 , 5, 45-53	2.8	6
32	Heat health risk assessment analysing heatstroke patients in Fukuoka City, Japan. <i>PLoS ONE</i> , 2021 , 16, e0253011	3.7	6
31	Characteristics of wind speed during rainfall event in the tropical urban city. <i>Urban Climate</i> , 2020 , 32, 100620	6.8	6
30	Outdoor measurement of wall pressure on cubical scale model affected by atmospheric turbulent flow. <i>Building and Environment</i> , 2019 , 160, 106170	6.5	5
29	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> , 2018 , 180, 191-200	3.7	5
28	Acquisition of the field measurement data relating to lane change actions. <i>International Journal of Modern Physics C</i> , 2015 , 26, 1550072	1.1	4
27	FIELD MEASUREMENT ON DISTRIBUTION OF CONVECTIVE HEAT TRANSFER COEFFICIENT WITHIN A REAL-SCALE URBAN CANOPY. <i>Journal of Environmental Engineering (Japan)</i> , 2008 , 73, 511-518	0.3	4
26	Green infrastructure and urban sustainability 2018 ,		3
25	A REVISED STOCHASTIC OPTIMAL VELOCITY MODEL CONSIDERING THE VELOCITY GAP WITH A PRECEDING VEHICLE. <i>International Journal of Modern Physics C</i> , 2011 , 22, 1005-1014	1.1	3
24	Calculation Method for Electricity Price and Rebate Level in Demand Response Programs. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6871	2.6	3
23	A STOCHASTIC MODEL TO PREDICT OFF/ON COOLING SCHEDULE IN DWELLINGS APPLIED BY MULTILAYERED NEURAL NETWORK. <i>Journal of Environmental Engineering (Japan)</i> , 2009 , 74, 937-942	0.3	2
22	WIND TUNNEL EXPERIMENT ON BULK SCALAR COEFFICIENT OF URBAN-LIKE ROUGHNESS. <i>Journal of Environmental Engineering (Japan)</i> , 2008 , 73, 1225-1231	0.3	2
21	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> , 2007 , 13, 845-848	0.2	2

20	A CONSIDERATION ON THE EFFECTS OF DRAG FORCE ACTING ON ROUGHNESS ELEMENT. <i>Journal of Environmental Engineering (Japan)</i> , 2014 , 79, 297-304	0.3	1
19	TOTAL UTILITY DEMAND PREDICTION CONSIDERING VARIATION OF OCCUPANTS' BEHAVIOR SCHEDULES APPLIED TO MULTI DWELLINGS. <i>Journal of Environmental Engineering (Japan)</i> , 2011 , 76, 141-149	0.3	1
18	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> , 2011 , 76, 67-73	0.3	1
17	OPTIMIZATION OF MODEL COEFFICIENTS FOR DIFFERENT CONFIGURATIONS AND DENSITIES OF CAR MOLDS. <i>Journal of Environmental Engineering (Japan)</i> , 2011 , 76, 831-837	0.3	1
16	TOTAL UTILITY DEMAND PREDICTION CONSIDERING VARIATION OF OCCUPANTS' BEHAVIOR SCHEDULES. <i>Journal of Environmental Engineering (Japan)</i> , 2009 , 74, 579-586	0.3	1
15	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> , 2009 , 74, 753-757	0.3	1
14	Evaluating the Impact of Solar Radiation on Outdoor Thermal Comfort by the Development and Validation of a Simple Urban Climatic Model 2006 , 515		1
13	Seasonal variation of residential cooling use behaviour derived from energy demand data and stochastic building energy simulation. <i>Journal of Building Engineering</i> , 2022 , 49, 104067	5.2	1
12	On-site measurement and evaluations of indoor thermal environment in low-cost dwellings of urban Kampung district. <i>Building and Environment</i> , 2020 , 184, 107239	6.5	1
11	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> , 2021 , 17, 773-784	4.4	1
10	Effectiveness of a Cool Bed Linen for Thermal Comfort and Sleep Quality in Air-Conditioned Bedroom under Hot-Humid Climate. <i>Sustainability</i> , 2021 , 13, 9099	3.6	1
9	Multi-Task Learning for Concurrent Prediction of Thermal Comfort, Sensation and Preference in Winters. <i>Buildings</i> , 2022 , 12, 750	3.2	1
8	Indoor thermal environment of Mongolian traditional mobile housing used as urban habitat in winter. <i>Journal of Building Engineering</i> , 2022 , 48, 103927	5.2	0
7	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> , 2021 , 16, e0254460	3.7	0
6	Associating thermal comfort and preference in Malaysian universities air-conditioned office rooms under various set-point temperatures. <i>Journal of Building Engineering</i> , 2022 , 104575	5.2	0
5	RESEARCH ON SOCIAL VALUE MEASUREMENT OF GLOBAL WARMING AND HEAT ISLAND COUNTERMEASURES APPLIED CONJOINT ANALYSIS. <i>Journal of Environmental Engineering (Japan)</i> , 2011 , 76, 211-219	0.3	
4	WIND TUNNEL EXPERIMENT ON EFFECT OF SHAPE OF AN OBSTACLE ON TOTAL DRAG FORCE OF REGULAR ARRAY. <i>Journal of Environmental Engineering (Japan)</i> , 2011 , 76, 485-492	0.3	
3	QUESTIONNAIRE SURVEY ON PREFERENCE OF ENVIRONMENTAL FACTORS OF RESIDENTIAL BUILDINGS. <i>Journal of Environmental Engineering (Japan)</i> , 2012 , 77, 523-531	0.3	

- 2 A STUDY ON THE SIMILARITY OF THE MOMENTUM AND SCALAR ROUGHNESS LENGTHS OVER URBAN-LIKE ROUGHNESS. *Journal of Environmental Engineering (Japan)*, **2012**, 77, 917-923 0.3
- 1 A RESEARCH ON THE UNIVERSAL MODEL OF ENVIRONMENTAL DILEMMA GAME BASED ON 2D GAME CONSTRAINED WITH THE EXOGENOUS RESOURCE RESTRICTION. *Journal of Environmental Engineering (Japan)*, **2008**, 73, 831-838 0.3