

# Yoshiyuki Shimoda

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

1,670  
citations

279701

23  
h-index

315616

38  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1569  
citing authors

#	ARTICLE	IF	CITATIONS
1	Residential end-use energy simulation at city scale. <i>Building and Environment</i> , 2004, 39, 959-967.	3.0	143
2	Evaluation of city-scale impact of residential energy conservation measures using the detailed end-use simulation model. <i>Energy</i> , 2007, 32, 1617-1633.	4.5	128
3	Proposal of a modeling approach considering urban form for evaluation of city level energy management. <i>Energy and Buildings</i> , 2007, 39, 580-592.	3.1	102
4	Prediction of greenhouse gas reduction potential in Japanese residential sector by residential energy end-use model. <i>Applied Energy</i> , 2010, 87, 1944-1952.	5.1	69
5	Effects of anthropogenic heat release upon the urban climate in a Japanese megacity. <i>Environmental Research</i> , 2009, 109, 421-431.	3.7	68
6	Energy saving potential of office equipment power management. <i>Energy and Buildings</i> , 2004, 36, 915-923.	3.1	51
7	Transition to a sustainable urban energy system from a long-term perspective: Case study in a Japanese business district. <i>Energy and Buildings</i> , 2007, 39, 1-12.	3.1	48
8	Adaptation measures for climate change and the urban heat island in Japan's built environment. <i>Building Research and Information</i> , 2003, 31, 222-230.	2.0	47
9	Biogenic volatile organic compound emission potential of forests and paddy fields in the Kinki region of Japan. <i>Environmental Research</i> , 2008, 106, 156-169.	3.7	47
10	Versatile Modeling Platform for Cooperative Energy Management Systems in Smart Cities. <i>Proceedings of the IEEE</i> , 2018, 106, 594-612.	16.4	47
11	Overview of energy consumption and GHG mitigation technologies in the building sector of Japan. <i>Energy Efficiency</i> , 2009, 2, 179-194.	1.3	44
12	Estimation of the contribution of the residential sector to summer peak demand reduction in Japan using an energy end-use simulation model. <i>Energy and Buildings</i> , 2016, 112, 80-92.	3.1	43
13	Verification of the energy-saving effect of the district heating and cooling system—Simulation of an electric-driven heat pump system. <i>Energy and Buildings</i> , 2008, 40, 732-741.	3.1	41
14	Verification of energy efficiency of district heating and cooling system by simulation considering design and operation parameters. <i>Building and Environment</i> , 2008, 43, 569-577.	3.0	39
15	Evaluating decarbonization scenarios and energy management requirement for the residential sector in Japan through bottom-up simulations of energy end-use demand in 2050. <i>Applied Energy</i> , 2021, 303, 117510.	5.1	39
16	Prediction of photovoltaic and solar water heater diffusion and evaluation of promotion policies on the basis of consumers' choices. <i>Applied Energy</i> , 2013, 102, 1148-1159.	5.1	37
17	City-level energy and CO <sub>2</sub> reduction effect by introducing new residential water heaters. <i>Energy</i> , 2010, 35, 4880-4891.	4.5	35
18	Evaluation of the thermal environment in an outdoor pedestrian space. <i>Atmospheric Environment</i> , 1996, 30, 497-505.	1.9	34

#	ARTICLE	IF	CITATIONS
19	Application of the genetic algorithm and downhill simplex methods (Nelder-Mead methods) in the search for the optimum chiller configuration. <i>Applied Thermal Engineering</i> , 2013, 61, 433-442.	3.0	34
20	Strategies for a sustainable campus in Osaka University. <i>Energy and Buildings</i> , 2017, 147, 1-8.	3.1	34
21	Urban building energy modeling considering the heterogeneity of HVAC system stock: A case study on Japanese office building stock. <i>Energy and Buildings</i> , 2019, 199, 547-561.	3.1	29
22	An integrated approach of estimating demand response flexibility of domestic laundry appliances based on household heterogeneity and activities. <i>Energy Policy</i> , 2020, 142, 111467.	4.2	28
23	District-scale simulation for multi-purpose evaluation of urban energy systems. <i>Journal of Building Performance Simulation</i> , 2010, 3, 289-305.	1.0	24
24	Field Study and Modeling of Semi-Transparent PV in Power, Thermal and Optical Aspects. <i>Journal of Asian Architecture and Building Engineering</i> , 2005, 4, 549-556.	1.2	23
25	Educational initiative of Osaka University in sustainability science: mobilizing science and technology towards sustainability. <i>Sustainability Science</i> , 2009, 4, 45-53.	2.5	23
26	The effect of the increase in urban temperature on the concentration of photochemical oxidants. <i>Atmospheric Environment</i> , 2009, 43, 2348-2359.	1.9	22
27	A stochastic model to predict occupants' activities at home for community-/urban-scale energy demand modelling. <i>Journal of Building Performance Simulation</i> , 2017, 10, 565-581.	1.0	22
28	A cross analysis of existing methods for modelling household appliance use. <i>Journal of Building Performance Simulation</i> , 2019, 12, 160-179.	1.0	22
29	Neighborhood influences on the diffusion of residential photovoltaic systems in Kyoto City, Japan. <i>Environmental Economics and Policy Studies</i> , 2019, 21, 477-505.	0.8	21
30	Toward designing sustainability education programs: a survey of master's programs through semi-structured interviews. <i>Sustainability Science</i> , 2018, 13, 953-972.	2.5	20
31	Evaluating Japan's national greenhouse gas reduction policy using a bottom-up residential end-use energy simulation model. <i>Applied Energy</i> , 2020, 279, 115792.	5.1	19
32	Building stock energy modeling considering building system composition and long-term change for climate change mitigation of commercial building stocks. <i>Applied Energy</i> , 2022, 306, 117907.	5.1	18
33	Stock modelling of HVAC systems in Japanese commercial building sector using logistic regression. <i>Energy and Buildings</i> , 2017, 152, 458-471.	3.1	17
34	Residential energy end-use model as evaluation tool for residential micro-generation. <i>Applied Thermal Engineering</i> , 2017, 114, 1433-1442.	3.0	16
35	DEVELOPMENT AND ANALYSIS OF DECC (DATA-BASE FOR ENERGY CONSUMPTION OF COMMERCIAL) Tj ETQq1 1 0,784314 rrgBT /Over 0,1 15	0.1	15
36	Energy management for voltage control in a net-zero energy house community considering appliance operation constraints and variety of households. <i>Energy and Buildings</i> , 2017, 147, 188-199.	3.1	13

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37	Reduction potential of operational carbon dioxide emission of Nakanoshima business/cultural area as a model for low-carbon districts in warm climates. <i>Building and Environment</i> , 2013, 59, 187-202.	3.0	12
38	Environmental Impact of Urban Heat Island Phenomena –Cause-effect chain and evaluation in Osaka City–. <i>Journal of Life Cycle Assessment Japan</i> , 2005, 1, 144-148.	0.0	11
39	STUDY ON ENERGY CONSUMPTION CHARACTERISTICS OF LARGE-SCALE UNIVERSITY FACILITIES. <i>Journal of Environmental Engineering (Japan)</i> , 2013, 78, 193-201.	0.1	11
40	Scenario Analysis of Regional Electricity Demand in the Residential and Commercial Sectors –influence of Diffusion of Photovoltaic Systems and Electric Vehicles into Power Grids. <i>Procedia CIRP</i> , 2014, 15, 319-324.	1.0	11
41	A STUDY ON DETERMINANTS OF AIR CONDITIONING ON/OFF CONTROL IN DWELLINGS BASED ON SURVEY. <i>Journal of Environmental Engineering (Japan)</i> , 2005, 70, 83-90.	0.1	10
42	Describing Long-Term Electricity Demand Scenarios in the Telecommunications Industry: A Case Study of Japan. <i>Sustainability</i> , 2016, 8, 52.	1.6	9
43	Enhancing Meso Level Research in Sustainability Science –Challenges and Research Needs. <i>Sustainability</i> , 2012, 4, 1833-1847.	1.6	8
44	EFFECTS OF INCREASING TEMPERATURE ON THE REGIONAL ENERGY CONSUMPTION IN OSAKA PREF. <i>Journal of Environmental Engineering (Japan)</i> , 2007, 72, 71-78.	0.1	8
45	Multi-scale GIS-synthetic hybrid approach for the development of commercial building stock energy model. <i>Applied Energy</i> , 2022, 323, 119536.	5.1	8
46	ESTIMATION OF ENERGY END-USE BREAKDOWN IN SCIENCE RESEARCH FACILITIES. <i>Journal of Environmental Engineering (Japan)</i> , 2014, 79, 443-450.	0.1	7
47	Effect of Urban Heat Island and Global Warming Countermeasures on Heat Release and Carbon Dioxide Emissions from a Detached House. <i>Atmosphere</i> , 2021, 12, 572.	1.0	7
48	Energy saving potential of cooperative management between DHC plant and building HVAC system. <i>Energy and Buildings</i> , 2012, 55, 631-636.	3.1	6
49	ENERGY CONSUMPTION AFTER GREAT EARTHQUAKE OF EAST JAPAN. <i>Journal of Environmental Engineering (Japan)</i> , 2014, 79, 795-801.	0.1	6
50	DEVELOPMENT OF MACRO SIMULATION METHOD ON HOUSEHOLD ENERGY CONSUMPTION AND CO <sub>2</sub> EMISSION BY EACH ADMINISTRATIVE DIVISION(Environmental Engineering). <i>AIJ Journal of Technology and Design</i> , 2005, 11, 263-268.	0.1	6
51	DISTRICT ELECTRICITY DEMAND PREDICTION UNDER LARGE DIFFUSION OF PHOTOVOLTAICS AND ENERGY SAVING TECHNOLOGY. <i>Journal of Environmental Engineering (Japan)</i> , 2012, 77, 805-811.	0.1	5
52	STUDY ON DIFFUSION OF DISTRICT HEATING AND COOLING IN JAPAN AND ITS EFFECTS ON GLOBAL ENVIRONMENT PRESERVATION. <i>Nihon Kenchiku Gakkai Keikakukei Ronbunshu</i> , 1998, 63, 61-67.	0.1	4
53	COMPARISON OF ENERGY CONSUMPTION PER UNIT FLOOR AREA AMONG RETAIL CATEGORIES BASED ON THE DATABASE OF ENERGY CONSUMPTION FOR COMMERCIAL BUILDINGS (DECC). <i>Journal of Environmental Engineering (Japan)</i> , 2012, 77, 889-897.	0.1	4
54	A STUDY ON THE ESTIMATION OF ENERGY CONSUMPTION RATE OF OFFICE BUILDINGS. <i>Journal of Environmental Engineering (Japan)</i> , 2012, 77, 203-211.	0.1	4

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55	Human thermal comfort estimation in indoor space by crowd sensing. , 2016, , .		4
56	DEVELOPMENT OF CITY SCALE RESIDENTIAL ENERGY END-USE MODEL INCLUDING HEAT LOAD CALCULATION : Development and application of city scale residential energy end-use model by considering with various household categories Part 1. Journal of Environmental Engineering (Japan), 2005, 70, 51-58.	0.1	4
57	ESTIMATION AND EVALUATION ON MATERIAL FLOW IN OSAKA PREFECTURE : Material and energy metabolism in urban area and their relationships with buildings Part 1. Nihon Kenchiku Gakkai Keikakukei Ronbunshu, 2001, 66, 83-90.	0.1	4
58	A STUDY ON DISAGGREGATING THE SMART METER DATA INTO ELECTRICITY ENERGY END-USES. Journal of Environmental Engineering (Japan), 2018, 83, 77-86.	0.1	4
59	Impact of the pre-simulation process of occupant behaviour modelling for residential energy demand simulations. Journal of Building Performance Simulation, 2022, 15, 287-306.	1.0	4
60	EFFECT OF THE MONITOR ROOF ON THE INDOOR THERMAL ENVIRONMENT AND PROPERTY OF NATURAL VENTILATION IN THE ROOM. AIJ Journal of Technology and Design, 2007, 13, 617-622.	0.1	3
61	MODELING OF RESIDENTIAL ENERGY END-USE MODEL FOR JAPAN AND EVALUATION ON EFFECT OF IMPROVEMENT IN INSULATION. Journal of Environmental Engineering (Japan), 2008, 73, 1217-1224.	0.1	3
62	ENERGY MODELING OF THE COMMERCIAL SECTOR OF OSAKA CITY AND EVALUATION OF ENERGY SAVING MEASURES CONSIDERING THE STOCK OF BUILDINGS AND BUILDING SYSTEMS. Journal of Environmental Engineering (Japan), 2009, 74, 853-862.	0.1	3
63	EVALUATION ON ELECTRICITY CONSUMPTION CHARACTERISTICS AND ENERGY CONSERVATION MEASURES OF SCIENCE RESEARCH FACILITIES. Journal of Environmental Engineering (Japan), 2013, 78, 529-536.	0.1	3
64	COMPREHENSIVE EVALUATION OF THE INFLUENCE OF OUTDOOR TEMPERATURE CHANGE ON HUMAN HEALTH AROUND THE URBAN AREA. Journal of Environmental Engineering (Japan), 2019, 84, 205-214.	0.1	3
65	A Thermal Comfort and Peak Power Demand Aware VRF Heating/Cooling Management Framework: Simulation and On-site Experiment. Journal of Information Processing, 2022, 30, 476-485.	0.3	3
66	STUDY ON THE ANALYSIS OF THE CAUSE OF AN URBAN HEAT ISLAND PHENOMENON THROUGH REPRODUCING THE PAST CONDITION. Journal of Environmental Engineering (Japan), 2009, 74, 1163-1172.	0.1	2
67	A STUDY ON THE CHARACTERISTICS OF ENERGY CONSUMPTION FOR WELFARE FACILITIES BASED ON THE DATABASE OF ENERGY CONSUMPTION FOR COMMERCIAL BUILDINGS (DECC). Journal of Environmental Engineering (Japan), 2011, 76, 1109-1117.	0.1	2
68	Per capita energy consumption for living, work, transport and other activities in cities in the Keihanshin Metropolitan Region, Japan. International Journal of Sustainable Building Technology and Urban Development, 2012, 3, 68-76.	1.0	2
69	Mapping research activities and technologies for sustainability and environmental studies—a case study at university level. Journal of Environmental Studies and Sciences, 2013, 3, 42-48.	0.9	2
70	A STUDY ON THE ESTIMATION OF ENERGY CONSUMPTION RATE OF ACCOMMODATION BUILDINGS. Journal of Environmental Engineering (Japan), 2013, 78, 45-54.	0.1	2
71	ANALYSIS OF UNIVERSITY SCIENCE FACILITIES&apos; ENERGY CONSUMPTION. Journal of Environmental Engineering (Japan), 2015, 80, 45-53.	0.1	2
72	STUDY OF THE POSSIBILITY OF ZERO-EMISSION BY SIMULATION OF THE RESIDENTIAL ENERGY DEMAND IN 2050. Journal of Environmental Engineering (Japan), 2020, 85, 289-298.	0.1	2

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73	ESTIMATION AND EVALUATION ON ENERGY FLOW IN OSAKA PREFECTURE : Material and energy metabolism in urban area and their relationships with buildings Part 2. Nihon Kenchiku Gakkai Keikaku-kei Ronbunshu, 2002, 67, 99-106.	0.1	2
74	ESTIMATION OF RESIDENTIAL ENERGY END-USE IN OSAKA CITY CONSIDERING THE DISTRIBUTION OF RESIDENCE AND APPLIANCES : Development and application of city scale residential energy end-use model by considering with various household categories Part 2. Journal of Environmental Engineering (Japan), 2005, 70, 97-104.	0.1	2
75	A STUDY ON EVALUATING ENERGY CONSERVATION EFFECT OF DISTRICT HEATING AND COOLING SYSTEM : Factor analysis based on the data of 123 plants and the verification of CGS evaluation method. Journal of Environmental Engineering (Japan), 2007, 72, 87-93.	0.1	2
76	VERIFICATION OF THE RESIDENTIAL CO <sub>2</sub> EMISSION REDUCTION EXPECTED IN THE LONG-TERM ENERGY SUPPLY AND DEMAND OUTLOOK. Journal of Environmental Engineering (Japan), 2019, 84, 323-333.	0.1	2
77	ESTIMATION OF APROOATENESS OF AREAS FOR DISTRICT HEATING AND COOLING SYSTEM CONSIDERING THE DISTRIBUTION OF BUILDING HEAT SOURCE SYSTEM. Journal of Environmental Engineering (Japan), 2011, 76, 509-515.	0.1	1
78	ANALYSIS OF THE ENERGY CONSUMPTION RATE OF OFFICE BUILDINGS BY THE TYPE OF HEAT SOURCE EQUIPMENTS. AIJ Journal of Technology and Design, 2013, 19, 1017-1022.	0.1	1
79	Evaluation of Effect of Residential Energy Demand Management to Mitigate Voltage Increase in High-Voltage Distribution Line Due To Large-scale Diffusion of PV. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1873-1883.	0.1	1
80	Research and Development Trend of Energy End Use Model. IEEJ Transactions on Power and Energy, 2015, 135, 347-350.	0.1	1
81	EVALUATION OF ENERGY SAVING MEASURES AND ATTAINABILITY OF NET ZERO ENERGY IN RESIDENTIAL BUILDINGS. Journal of Environmental Engineering (Japan), 2011, 76, 665-672.	0.1	0
82	ESTIMATION OF RESIDENTIAL ENERGY CONSERVATION EFFECT IN OSAKA PREFECTURE BY IMPLEMENTING THE NEW ENERGY SAVING STANDARD. Journal of Environmental Engineering (Japan), 2015, 80, 159-168.	0.1	0
83	FACTOR ANALYSIS ON ELECTRICITY CONSERVATION RATES IN WELFARE FACILITIES. AIJ Journal of Technology and Design, 2016, 22, 645-650.	0.1	0
84	Corrigendum to “Urban building energy modeling considering the heterogeneity of HVAC system stock: A case study on Japanese office building stock” [Energy & Buildings (2019) 547-561]. Energy and Buildings, 2020, 207, 109589.	3.1	0
85	INFLUENCE OF HEATING AND COOLING LOAD REDUCTION IN BUILDINGS ON ENERGY EFFICIENCY OF HEATING AND COOLING SYSTEMS. Journal of Environmental Engineering (Japan), 2021, 86, 797-806.	0.1	0
86	POTENTIAL OF ENERGY RECOVERY FROM MUNICIPAL WASTE IN OSAKA CITY : Material and energy metabolism in urban area and their relationships with buildings Part 3. Nihon Kenchiku Gakkai Keikaku-kei Ronbunshu, 2002, 67, 65-72.	0.1	0
87	EVALUATION METHOD FOR ENERGY CONSERVATION WITH PREDICTING ENERGY BASELINE CONSUMED IN OFFICE BUILDING (Environmental Engineering). AIJ Journal of Technology and Design, 2004, 10, 203-208.	0.1	0
88	Evaluation of Response to DR for Residential Customers based on Measured Electricity at Electric Board. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 784-793.	0.1	0
89	Case Study of Smart Community Development in New Residential District. , 2019, 54, 486-492.		0
90	ANALYSIS ON BUILDING ENVELOP AND BUILDING SERVICE EQUIPMENT DESIGN SPECIFICATION USING THE INPUT AND OUTPUT DATA FROM THE CALCULATION PROGRAM TO CONFIRM COMPLIANCE WITH BUILDING ENERGY CODE (PART 2): LOGISTIC REGRESSION-BASED ANALYSIS CONSIDERING BUILDING SIZE AND LOCATION. Journal of Environmental Engineering (Japan), 2022, 87, 448-459.	0.1	0