

# Geun Young Yun

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

58 papers	1,858 citations	23 h-index	42 g-index
63 ext. papers	2,213 ext. citations	5.3 avg, IF	5.7 L-index

#	Paper	IF	Citations
58	Geographically extended occupant clothing behavior model using convolutional neural networks with hyperband technique. <i>Journal of Building Engineering</i> , <b>2022</b> , 49, 104023	5.2	
57	Recent advances in black box and white-box models for urban heat island prediction: Implications of fusing the two methods. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 165, 112520	16.2	1
56	Meteorological influence on forecasting urban pollutants: Long-term predictability versus extreme events in a spatially heterogeneous urban ecosystem.. <i>Science of the Total Environment</i> , <b>2021</b> , 152537	10.2	0
55	Influences of Spectral Power Distribution on Circadian Energy, Visual Comfort and Work Performance. <i>Sustainability</i> , <b>2021</b> , 13, 4852	3.6	2
54	Empirical evidence on the impact of urban overheating on building cooling and heating energy consumption. <i>IScience</i> , <b>2021</b> , 24, 102495	6.1	11
53	Exploring the relationship between particulate matter, CO, SO, NO, O and urban heat island in Seoul, Korea. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123615	12.8	20
52	Influence of Tree Canopy Coverage and Leaf Area Density on Urban Heat Island Mitigation. <i>Sustainability</i> , <b>2021</b> , 13, 7496	3.6	3
51	Influences of wind speed, sky conditions, land use and land cover characteristics on the magnitude of the urban heat island in Seoul: An exploratory analysis. <i>Sustainable Cities and Society</i> , <b>2021</b> , 71, 102953	10.1	6
50	A novel deep learning-based integrated photovoltaic, energy storage system and electric heat pump system: Optimising energy usage and costs. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 9306-9325	4.5	2
49	Using deep-learning to forecast the magnitude and characteristics of urban heat island in Seoul Korea. <i>Scientific Reports</i> , <b>2020</b> , 10, 3559	4.9	15
48	Comparative Performance of Machine Learning Algorithms in the Prediction of Indoor Daylight Illuminances. <i>Sustainability</i> , <b>2020</b> , 12, 4471	3.6	10
47	The use of artificial intelligence (AI) methods in the prediction of thermal comfort in buildings: energy implications of AI-based thermal comfort controls. <i>Energy and Buildings</i> , <b>2020</b> , 211, 109807	7	55
46	A Novel Hybrid Deep Neural Network Model to Predict the Refrigerant Charge Amount of Heat Pumps. <i>Sustainability</i> , <b>2020</b> , 12, 2914	3.6	4
45	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics. <i>PLoS ONE</i> , <b>2020</b> , 15, e0243571	3.7	14
44	ENERGY AND FEASIBILITY ANALYSIS OF APPLYING BIO-BASED PHASE CHANGE MATERIALS TO BUILDINGS IN EAST ASIA. <i>Journal of Green Building</i> , <b>2020</b> , 15, 157-181	1.3	1
43	Using deep learning approaches with variable selection process to predict the energy performance of a heating and cooling system. <i>Renewable Energy</i> , <b>2020</b> , 149, 1227-1245	8.1	16
42	Predicting the magnitude and the characteristics of the urban heat island in coastal cities in the proximity of desert landforms. The case of Sydney. <i>Science of the Total Environment</i> , <b>2020</b> , 709, 136068	10.2	41

41	Recent development and research priorities on cool and super cool materials to mitigate urban heat island. <i>Renewable Energy</i> , <b>2020</b> , 161, 792-807	8.1	53
40	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics <b>2020</b> , 15, e0243571		
39	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics <b>2020</b> , 15, e0243571		
38	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics <b>2020</b> , 15, e0243571		
37	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics <b>2020</b> , 15, e0243571		
36	Data-driven approach to prediction of residential energy consumption at urban scales in London. <i>Energy</i> , <b>2019</b> , 187, 115973	7.9	21
35	Prediction of indoor clothing insulation levels: A deep learning approach. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109402	7	18
34	Effects of Changing Air Temperature at Different Sleep Stages on the Subjective Evaluation of Sleep Quality. <i>Sustainability</i> , <b>2019</b> , 11, 1417	3.6	4
33	Energy retrofit analysis of cross-laminated timber residential buildings in Seoul, Korea: Insights from a case study of packages. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109329	7	7
32	Influences of perceived control on thermal comfort and energy use in buildings. <i>Energy and Buildings</i> , <b>2018</b> , 158, 822-830	7	54
31	New and Advanced Materials and Technologies in Ultralow-Energy Buildings. <i>Advances in Civil Engineering</i> , <b>2018</b> , 2018, 1-2	1.3	
30	Dynamic target high pressure control of a VRF system for heating energy savings. <i>Applied Thermal Engineering</i> , <b>2017</b> , 113, 1386-1395	5.8	12
29	Development of an automatic calibration method of a VRF energy model for the design of energy efficient buildings. <i>Energy and Buildings</i> , <b>2017</b> , 135, 156-165	7	11
28	Cooling Energy Implications of Occupant Factor in Buildings under Climate Change. <i>Sustainability</i> , <b>2017</b> , 9, 2039	3.6	10
27	Energy Saving Potential of PCMs in Buildings under Future Climate Conditions. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1219	2.6	20
26	Polymer Composites for Passive Control System of Buildings. <i>International Journal of Polymer Science</i> , <b>2017</b> , 2017, 1-1	2.4	1
25	Development and application of the load responsive control of the evaporating temperature in a VRF system for cooling energy savings. <i>Energy and Buildings</i> , <b>2016</b> , 116, 638-645	7	39
24	The neural network predictive model for heat island intensity in Seoul. <i>Energy and Buildings</i> , <b>2016</b> , 110, 353-361	7	27

23	Extending the applicability of the adaptive comfort model to the control of air-conditioning systems. <i>Building and Environment</i> , <b>2016</b> , 105, 13-23	6.5	29
22	Development of the adaptive PMV model for improving prediction performances. <i>Energy and Buildings</i> , <b>2015</b> , 98, 100-105	7	56
21	Energy performance of direct expansion air handling unit in office buildings. <i>Energy and Buildings</i> , <b>2014</b> , 77, 425-431	7	25
20	Creating Sustainable Building through Exploiting Human Comfort. <i>Energy Procedia</i> , <b>2014</b> , 62, 590-594	2.3	3
19	Subjective Responses to Changes in Spectral Power Distributions of LED Light. <i>Indoor and Built Environment</i> , <b>2013</b> , 22, 226-234	1.8	3
18	Energy-Saving Potential of LED Lighting Systems. <i>Indoor and Built Environment</i> , <b>2013</b> , 22, 235-241	1.8	12
17	Bond strength of steel deformed rebars embedded in artificial lightweight aggregate concrete. <i>Journal of Adhesion Science and Technology</i> , <b>2013</b> , 27, 490-507	2	18
16	A Field Survey of Thermal Comfort in Office Building with a Unitary Heat-Pump and Energy Recovery Ventilator. <i>Smart Innovation, Systems and Technologies</i> , <b>2013</b> , 1003-1010	0.5	1
15	Effects of occupancy and lighting use patterns on lighting energy consumption. <i>Energy and Buildings</i> , <b>2012</b> , 46, 152-158	7	115
14	A field survey of visual comfort and lighting energy consumption in open plan offices. <i>Energy and Buildings</i> , <b>2012</b> , 46, 146-151	7	74
13	View types and luminance effects on discomfort glare assessment from windows. <i>Energy and Buildings</i> , <b>2012</b> , 46, 139-145	7	49
12	Prediction of Discomfort Glares from Windows: Influence of the Subjective Evaluation of Window Views. <i>Indoor and Built Environment</i> , <b>2012</b> , 21, 92-97	1.8	12
11	Thermal and Non-Thermal Stimuli for the Use of Windows in Offices. <i>Indoor and Built Environment</i> , <b>2012</b> , 21, 109-121	1.8	10
10	Evaluation of Daylighting Effectiveness and Energy Saving Potentials of Light-Pipe Systems in Buildings. <i>Indoor and Built Environment</i> , <b>2012</b> , 21, 129-136	1.8	24
9	The Effect of Seasons and Prevailing Environments on Adaptive Comfort Temperatures in Open Plan Offices. <i>Indoor and Built Environment</i> , <b>2012</b> , 21, 41-47	1.8	28
8	Behavioural, physical and socio-economic factors in household cooling energy consumption. <i>Applied Energy</i> , <b>2011</b> , 88, 2191-2200	10.7	158
7	Night-time naturally ventilated offices: Statistical simulations of window-use patterns from field monitoring. <i>Solar Energy</i> , <b>2010</b> , 84, 1216-1231	6.8	34
6	Thermal performance of a naturally ventilated building using a combined algorithm of probabilistic occupant behaviour and deterministic heat and mass balance models. <i>Energy and Buildings</i> , <b>2009</b> , 41, 489-499	7	99

5	Implications of urban settings for the design of photovoltaic and conventional faades. <i>Solar Energy</i> , <b>2009</b> , 83, 69-80	6.8	28
4	Household energy consumption: a study of the role of occupants. <i>Building Research and Information</i> , <b>2009</b> , 37, 625-637	4.3	173
3	Natural ventilation in practice: linking facade design, thermal performance, occupant perception and control. <i>Building Research and Information</i> , <b>2008</b> , 36, 608-624	4.3	39
2	Time-dependent occupant behaviour models of window control in summer. <i>Building and Environment</i> , <b>2008</b> , 43, 1471-1482	6.5	184
1	Design and overall energy performance of a ventilated photovoltaic faade. <i>Solar Energy</i> , <b>2007</b> , 81, 383-394	6.4	116