Kwangbok Jeong

List of Publications by Year
in descending order

		218677	289244
60 papers	1,760 citations	26 h-index	40 g-index
61 all docs	61 docs citations	61 times ranked	1592 citing authors

#	ARTICLE	IF	CITATIONS
1	A review on sustainable construction management strategies for monitoring, diagnosing, and retrofitting the building's dynamic energy performance: Focused on the operation and maintenance phase. Applied Energy, 2015, 155, 671-707.	10.1	140
2	Development of a method for estimating the rooftop solar photovoltaic (PV) potential by analyzing the available rooftop area using Hillshade analysis. Applied Energy, 2017, 194, 320-332.	10.1	127
3	An optimization model for selecting the optimal green systems by considering the thermal comfort and energy consumption. Applied Energy, 2016, 169, 682-695.	10.1	85
4	An estimation model for determining the annual energy cost budget in educational facilities using SARIMA (seasonal autoregressive integrated moving average) and ANN (artificial neural network). Energy, 2014, 71, 71-79.	8.8	75
5	A decision support model for reducing electric energy consumption in elementary school facilities. Applied Energy, 2012, 95, 253-266.	10.1	74
6	Development of a CO_2 emission benchmark for achieving the national CO_2 emission reduction target by 2030. Energy and Buildings, 2018, 158, 86-94.	6.7	64
7	An integrated evaluation of productivity, cost and CO_2 emission between prefabricated and conventional columns. Journal of Cleaner Production, 2017, 142, 2393-2406.	9.3	61
8	Development of the smart photovoltaic system blind and its impact on net-zero energy solar buildings using technical-economic-political analyses. Energy, 2017, 124, 382-396.	8.8	59
9	A bottom-up approach for estimating the economic potential of the rooftop solar photovoltaic system considering the spatial and temporal diversity. Applied Energy, 2018, 232, 640-656.	10.1	54
10	An optimized gene expression programming model for forecasting the national CO_2 emissions in 2030 using the metaheuristic algorithms. Applied Energy, 2018, 228, 808-820.	10.1	54
11	Occupant responses on satisfaction with window size in physical and virtual built environments. Building and Environment, 2019, 166, 106409.	6.9	54
12	Establishment of an optimal occupant behavior considering the energy consumption and indoor environmental quality by region. Applied Energy, 2017, 204, 1431-1443.	10.1	50
13	A model for predicting the environmental impacts of educational facilities in the project planning phase. Journal of Cleaner Production, 2015, 107, 538-549.	9.3	40
14	Development of an evaluation process for green and non-green buildings focused on energy performance of G-SEED and LEED. Building and Environment, 2016, 105, 172-184.	6.9	38
15	Establishing environmental benchmarks to determine the environmental performance of elementary school buildings using LCA. Energy and Buildings, 2016, 127, 818-829.	6.7	35
16	Life cycle economic and environmental assessment for establishing the optimal implementation strategy of rooftop photovoltaic system in military facility. Journal of Cleaner Production, 2015, 104, 315-327.	9.3	33
17	Nonlinearity analysis of the shading effect on the technical–economic performance of the building-integrated photovoltaic blind. Applied Energy, 2017, 194, 467-480.	10.1	33
18	Building occupants' psycho-physiological response to indoor climate and CO_2 concentration changes in office buildings. Building and Environment, 2020, 169, 106596.	6.9	33

#	Article	IF	Citations
19	Development of an integrated energy benchmark for a multi-family housing complex using district heating. Applied Energy, 2016, 179, 1048-1061.	10.1	32
20	Development of a prediction model for the cost saving potentials in implementing the building energy efficiency rating certification. Applied Energy, 2017, 189, 257-270.	10.1	32
21	A finite element model for estimating the techno-economic performance of the building-integrated photovoltaic blind. Applied Energy, 2016, 179, 211-227.	10.1	31
22	Analyzing the real-time indoor environmental quality factors considering the influence of the building occupants' behaviors and the ventilation. Building and Environment, 2019, 156, 99-109.	6.9	31
23	Advanced Strategies for Net-Zero Energy Building: Focused on the Early Phase and Usage Phase of a Building's Life Cycle. Sustainability, 2017, 9, 2272.	3.2	29
24	A program-level management system for the life cycle environmental and economic assessment of complex building projects. Environmental Impact Assessment Review, 2015, 54, 9-21.	9.2	28
25	Estimation of the Available Rooftop Area for Installing the Rooftop Solar Photovoltaic (PV) System by Analyzing the Building Shadow Using Hillshade Analysis. Energy Procedia, 2016, 88, 408-413.	1.8	27
26	A Preliminary Study on the 2-axis Hybrid Solar Tracking Method for the Smart Photovoltaic Blind. Energy Procedia, 2016, 88, 484-490.	1.8	27
27	Physiological response of building occupants based on their activity and the indoor environmental quality condition changes. Building and Environment, 2018, 145, 96-103.	6.9	26
28	BIM-based preliminary estimation method considering the life cycle cost for decision-making in the early design phase. Journal of Asian Architecture and Building Engineering, 2020, 19, 384-399.	2.0	26
29	Development of a multi-objective optimization model for determining the optimal CO_2 emissions reduction strategies for a multi-family housing complex. Renewable and Sustainable Energy Reviews, 2019, 110, 118-131.	16.4	25
30	A model for evaluating the environmental benefits of elementary school facilities. Journal of Environmental Management, 2014, 132, 220-229.	7.8	23
31	An economic impact analysis of residential progressive electricity tariffs in implementing the building-integrated photovoltaic blind using an advanced finite element model. Applied Energy, 2017, 202, 259-274.	10.1	21
32	Development of a rooftop solar photovoltaic rating system considering the technical and economic suitability criteria at the building level. Energy, 2018, 160, 213-224.	8.8	21
33	Zoning-Based Vertical Transportation Optimization for Workers at Peak Time in a Skyscraper Construction. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 826-845.	9.8	18
34	Improvements of the operational rating system for existing residential buildings. Applied Energy, 2017, 193, 112-124.	10.1	18
35	Establishment of a base price for the Solar Renewable Energy Credit (SREC) from the perspective of residents and state governments in the United States. Renewable and Sustainable Energy Reviews, 2017, 75, 1066-1080.	16.4	18
36	Multi-criteria decision support system of the photovoltaic and solar thermal energy systems using the multi-objective optimization algorithm. Science of the Total Environment, 2019, 659, 1100-1114.	8.0	18

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37	Framework for Approaching the Minimum CV(RMSE) using Energy Simulation and Optimization Tool. Energy Procedia, 2016, 88, 265-270.	1.8	17
38	The optimal photovoltaic system implementation strategy to achieve the national carbon emissions reduction target in 2030: Focused on educational facilities. Energy and Buildings, 2016, 119, 101-110.	6.7	17
39	A Prototype Design and Development of the Smart Photovoltaic System Blind Considering the Photovoltaic Panel, Tracking System, and Monitoring System. Applied Sciences (Switzerland), 2017, 7, 1077.	2.5	15
40	The effects of filters for an intelligent air pollutant control system considering natural ventilation and the occupants. Science of the Total Environment, 2019, 657, 410-419.	8.0	15
41	A simplified estimation model for determining the optimal rooftop photovoltaic system for gable roofs. Energy and Buildings, 2017, 151, 320-331.	6.7	13
42	A model for determining the optimal lease payment in the solar lease business for residences and third-party companies â€" With focus on the region and on multi-family housing complexes. Renewable and Sustainable Energy Reviews, 2018, 82, 824-836.	16.4	13
43	Deep Learningâ€"Based Automation of Scan-to-BIM with Modeling Objects from Occluded Point Clouds. Journal of Management in Engineering - ASCE, 2022, 38, .	4.8	13
44	An indoor environmental quality distribution map based on spatial interpolation methods. Building and Environment, 2022, 213, 108880.	6.9	12
45	An integrated assessment of the environmental, human health, and economic impacts based on life cycle assessment: A case study of the concrete and steel sumps. Journal of Cleaner Production, 2019, 239, 118032.	9.3	11
46	A Preliminary Study for Determining Photovoltaic Panel for a Smart Photovoltaic Blind Considering Usability and Constructability Issues. Energy Procedia, 2016, 88, 363-367.	1.8	10
47	Development of a decision support model for determining the target multi-family housing complex for green remodeling using data mining techniques. Energy and Buildings, 2019, 202, 109401.	6.7	9
48	A data-driven approach for establishing a CO_2 emission benchmark for a multi-family housing complex using data mining techniques. Renewable and Sustainable Energy Reviews, 2021, 138, 110497.	16.4	9
49	An optimal implementation strategy of the multi-function window considering the nonlinearity of its technical-environmental-economic performance by window ventilation system size. Building and Environment, 2019, 161, 106234.	6.9	8
50	Development of the hybrid model for estimating the undisturbed ground temperature using the finite element method and geostatistical technique. Energy and Buildings, 2017, 152, 162-174.	6.7	7
51	Development of a greenhouse gas emissions benchmark considering building characteristics and national greenhouse emissions reduction target. Energy and Buildings, 2022, 269, 112248.	6.7	7
52	Embodied and Operational CO_2 Emissions of the Elementary School Buildings in Different Climate Zones. KSCE Journal of Civil Engineering, 2020, 24, 1037-1048.	1.9	6
53	Mapping the Rescue Equipment Mobilization Potential: Decision Support Tool for Emergency Management. Journal of Management in Engineering - ASCE, 2017, 33, 04017037.	4.8	5
54	DEVELOPMENT OF THE MONTHLY AVERAGE DAILY SOLAR RADIATION MAP USING A-CBR, FEM, AND KRIGING METHOD. Technological and Economic Development of Economy, 2018, 24, 489-512.	4.6	5

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55	Estimation of the optimal government rebate for promoting the photovoltaic system in multi-family housing complexes. Renewable and Sustainable Energy Reviews, 2018, 91, 720-728.	16.4	3
56	Intelligent planning unit for the artificial intelligent based built environment focusing on human-building interaction. Journal of Asian Architecture and Building Engineering, 2021, 20, 729-746.	2.0	3
57	Analysis of ways to reduce potential health risk from ultrafine and fine particles emitted from 3D printers in the makerspace. Indoor Air, 2022, 32, .	4.3	2
58	Dynamic analysis of the urban-based low-carbon policy using system dynamics: Focused on housing and green space. , 2015, , .		0
59	Framework for the Analysis of the Potential of Ground Source Heat Pump System in Elementary School Facility. Energy Procedia, 2017, 105, 1051-1057.	1.8	0
60	Framework for Evaluating the Thermal Insulation Performance of Existing Residential Buildings Using the Infrared Thermal Image and Image Processing Method. , 2015, , .		0