Taehoon Hong

List of Publications by Year
in descending order

227 papers	6,811 citations

57719

44 h-index	

114418

63 g-index	

230 all docs	230 docs citations	230 times ranked	4440 citing authors

#	Article	IF	Citations
1	A systematic review of the smart energy conservation system: From smart homes to sustainable smart cities. Renewable and Sustainable Energy Reviews, 2021, 140, 110755.	8.2	168
2	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.	5.1	140
3	Effect of project characteristics on project performance in construction projects based on structural equation model. Expert Systems With Applications, 2009, 36, 10461-10470.	4.4	138
4	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.	5.1	127
5	A GIS (geographic information system)-based optimization model for estimating the electricity generation of the rooftop PV (photovoltaic) system. Energy, 2014, 65, 190-199.	4.5	102
6	LCC and LCCO2 analysis of green roofs in elementary schools with energy saving measures. Energy and Buildings, 2012, 45, 229-239.	3.1	100
7	Analysis of South Korea's economic growth, carbon dioxide emission, and energy consumption using the Markov switching model. Renewable and Sustainable Energy Reviews, 2013, 18, 543-551.	8.2	96
8	A CBR-based hybrid model for predicting a construction duration and cost based on project characteristics in multi-family housing projects. Canadian Journal of Civil Engineering, 2010, 37, 739-752.	0.7	93
9	Development of a new energy benchmark for improving the operational rating system of office buildings using various data-mining techniques. Applied Energy, 2016, 173, 225-237.	5.1	92
10	An optimization model for selecting the optimal green systems by considering the thermal comfort and energy consumption. Applied Energy, 2016, 169, 682-695.	5.1	85
11	Determining the Peer-to-Peer electricity trading price and strategy for energy prosumers and consumers within a microgrid. Applied Energy, 2020, 261, 114335.	5.1	85
12	Changes in energy consumption according to building use type under COVID-19 pandemic in South Korea. Renewable and Sustainable Energy Reviews, 2021, 148, 111294.	8.2	82
13	Assessment Model for Energy Consumption and Greenhouse Gas Emissions during Building Construction. Journal of Management in Engineering - ASCE, 2014, 30, 226-235.	2.6	78
14	Development of a new energy efficiency rating system for existing residential buildings. Energy Policy, 2014, 68, 218-231.	4.2	78
15	Economic and Environmental Evaluation Model for Selecting the Optimum Design of Green Roof Systems in Elementary Schools. Environmental Science & Technology, 2012, 46, 8475-8483.	4.6	76
16	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.	4.5	75
17	A decision support model for reducing electric energy consumption in elementary school facilities. Applied Energy, 2012, 95, 253-266.	5.1	74
18	An estimation model for the heating and cooling demand of a residential building with a different envelope design using the finite element method. Applied Energy, 2014, 115, 205-215.	5.1	73

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19	Cost and CO2 Emission Optimization of Steel Reinforced Concrete Columns in High-Rise Buildings. Energies, 2013, 6, 5609-5624.	1.6	72
20	Framework for the analysis of the potential of the rooftop photovoltaic system to achieve the net‑zero energy solar buildings. Progress in Photovoltaics: Research and Applications, 2014, 22, 462-478.	4.4	67
21	Hybrid LCA model for assessing the embodied environmental impacts of buildings in South Korea. Environmental Impact Assessment Review, 2015, 50, 143-155.	4.4	66
22	An economic and environmental assessment for selecting the optimum new renewable energy system for educational facility. Renewable and Sustainable Energy Reviews, 2014, 29, 286-300.	8.2	65
23	An integrated multi-objective optimization model for determining the optimal solution in implementing the rooftop photovoltaic system. Renewable and Sustainable Energy Reviews, 2016, 57, 822-837.	8.2	65
24	Comparative analysis of decision-making methods for integrating cost and CO2 emission â€" focus on building structural design â€". Energy and Buildings, 2014, 72, 186-194.	3.1	64
25	Development of a CO2 emission benchmark for achieving the national CO2 emission reduction target by 2030. Energy and Buildings, 2018, 158, 86-94.	3.1	64
26	Estimation of the Monthly Average Daily Solar Radiation using Geographic Information System and Advanced Case-Based Reasoning. Environmental Science & Technology, 2013, 47, 4829-4839.	4.6	63
27	The development of a construction cost prediction model with improved prediction capacity using the advanced CBR approach. Expert Systems With Applications, 2011, 38, 8597-8606.	4.4	62
28	Integrated model for assessing the cost and CO2 emission (IMACC) for sustainable structural design in ready-mix concrete. Journal of Environmental Management, 2012, 103, 1-8.	3.8	62
29	An integrated evaluation of productivity, cost and CO2 emission between prefabricated and conventional columns. Journal of Cleaner Production, 2017, 142, 2393-2406.	4.6	61
30	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.	4.5	59
31	A decision support model for improving a multi-family housing complex based on CO2 emission from gas energy consumption. Building and Environment, 2012, 52, 142-151.	3.0	56
32	AN INTEGRATED MULTI-OBJECTIVE OPTIMIZATION MODEL FOR SOLVING THE CONSTRUCTION TIME-COST TRADE-OFF PROBLEM. Journal of Civil Engineering and Management, 2015, 21, 323-333.	1.9	55
33	A multi-objective optimization model for determining the building design and occupant behaviors based on energy, economic, and environmental performance. Energy, 2019, 174, 823-834.	4.5	55
34	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.	5.1	54
35	An optimized gene expression programming model for forecasting the national CO2 emissions in 2030 using the metaheuristic algorithms. Applied Energy, 2018, 228, 808-820.	5.1	54
36	Occupant responses on satisfaction with window size in physical and virtual built environments. Building and Environment, 2019, 166, 106409.	3.0	54

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37	A psychophysiological effect of indoor thermal condition on college students' learning performance through EEG measurement. Building and Environment, 2020, 184, 107223.	3.0	54
38	Impact of different LEED versions for green building certification and energy efficiency rating system: A Multifamily Midrise case study. Applied Energy, 2017, 205, 732-740.	5.1	53
39	Framework for the Mapping of the Monthly Average Daily Solar Radiation Using an Advanced Case-Based Reasoning and a Geostatistical Technique. Environmental Science & Technology, 2014, 48, 4604-4612.	4.6	50
40	Establishment of an optimal occupant behavior considering the energy consumption and indoor environmental quality by region. Applied Energy, 2017, 204, 1431-1443.	5.1	50
41	Psychological and physiological effects of a green wall on occupants: A cross-over study in virtual reality. Building and Environment, 2021, 204, 108134.	3.0	48
42	Framework for the implementation of a new renewable energy system in an educational facility. Applied Energy, 2013, 103, 539-551.	5.1	47
43	Determining the optimal window size of office buildings considering the workers' task performance and the building's energy consumption. Building and Environment, 2020, 177, 106872.	3.0	47
44	Energy-Saving Techniques for Reducing CO_2 Emissions in Elementary Schools. Journal of Management in Engineering - ASCE, 2012, 28, 39-50.	2.6	46
45	Decision support model for establishing the optimal energy retrofit strategy for existing multi-family housing complexes. Energy Policy, 2014, 66, 157-169.	4.2	46
46	Methodology for assessing human health impacts due to pollutants emitted from building materials. Building and Environment, 2016, 95, 133-144.	3.0	45
47	How to better share energy towards a carbon-neutral city? A review on application strategies of battery energy storage system in city. Renewable and Sustainable Energy Reviews, 2022, 157, 112113.	8.2	44
48	Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex. Applied Energy, 2014, 114, 663-675.	5.1	42
49	Automatic calibration model of a building energy simulation using optimization algorithm. Energy Procedia, 2017, 105, 3698-3704.	1.8	42
50	An integrated psychological response score of the occupants based on their activities and the indoor environmental quality condition changes. Building and Environment, 2017, 123, 66-77.	3.0	42
51	Health risk assessment for occupants as a decision-making tool to quantify the environmental effects of particulate matter in construction projects. Building and Environment, 2019, 161, 106267.	3.0	42
52	Maintenance management process for reducing CO_2 emission in shopping mall complexes. Energy and Buildings, 2011, 43, 894-904.	3.1	41
53	A decision support model for improving a multi-family housing complex based on CO_2 emission from electricity consumption. Journal of Environmental Management, 2012, 112, 67-78.	3.8	40
54	A model for predicting the environmental impacts of educational facilities in the project planning phase. Journal of Cleaner Production, 2015, 107, 538-549.	4.6	40

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55	An integrated multi-objective optimization model for establishing the low-carbon scenario 2020 to achieve the national carbon emissions reduction target for residential buildings. Renewable and Sustainable Energy Reviews, 2015, 49, 410-425.	8.2	39
56	Automatic ventilation control algorithm considering the indoor environmental quality factors and occupant ventilation behavior using a logistic regression model. Building and Environment, 2019, 153, 46-59.	3.0	39
57	Effect of Delivery Methods on Design Performance in Multifamily Housing Projects. Journal of Construction Engineering and Management - ASCE, 2008, 134, 468-482.	2.0	38
58	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.	3.0	38
59	An economic impact analysis of state solar incentives for improving financial performance of residential solar photovoltaic systems in the United States. Renewable and Sustainable Energy Reviews, 2016, 58, 590-607.	8.2	38
60	Hybrid agent-based modeling of rooftop solar photovoltaic adoption by integrating the geographic information system and data mining technique. Energy Conversion and Management, 2019, 183, 266-279.	4.4	38
61	A STUDY ON THE DEVELOPMENT OF A COST MODEL BASED ON THE OWNER'S DECISION MAKING AT THE EARLY STAGES OF A CONSTRUCTION PROJECT. International Journal of Strategic Property Management, 2010, 14, 121-137.	0.8	37
62	Evaluation of the influence of design factors on the CO_2 emissions and costs of reinforced concrete columns. Energy and Buildings, 2014, 82, 378-384.	3.1	37
63	Development of a dynamic operational rating system in energy performance certificates for existing buildings: Geostatistical approach and data-mining technique. Applied Energy, 2015, 154, 254-270.	5.1	37
64	Spatial perception of ceiling height and type variation in immersive virtual environments. Building and Environment, 2019, 163, 106285.	3.0	37
65	A novel operation approach for the energy efficiency improvement of the HVAC system in office spaces through real-time big data analytics. Renewable and Sustainable Energy Reviews, 2020, 127, 109885.	8.2	37
66	CBR Revision Model for Improving Cost Prediction Accuracy in Multifamily Housing Projects. Journal of Management in Engineering - ASCE, 2010, 26, 229-236.	2.6	35
67	Establishing environmental benchmarks to determine the environmental performance of elementary school buildings using LCA. Energy and Buildings, 2016, 127, 818-829.	3.1	35
68	Optimal planning of a rooftop PV system using GIS-based reinforcement learning. Applied Energy, 2021, 298, 117239.	5.1	35
69	Assessment of Seasonal Energy Efficiency Strategies of a Double Skin Façade in a Monsoon Climate Region. Energies, 2013, 6, 4352-4376.	1.6	34
70	Quantitative health impact assessment of construction noise exposure on the nearby region for noise barrier optimization. Building and Environment, 2020, 176, 106869.	3.0	34
71	Framework for establishing the optimal implementation strategy of a fuel-cell-based combined heat and power system: Focused on multi-family housing complex. Applied Energy, 2014, 127, 11-24.	5.1	33
72	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.	4.6	33

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73	Nonlinearity analysis of the shading effect on the technical–economic performance of the building-integrated photovoltaic blind. Applied Energy, 2017, 194, 467-480.	5.1	33
74	Techno-economic performance analysis of the smart solar photovoltaic blinds considering the photovoltaic panel type and the solar tracking method. Energy and Buildings, 2019, 193, 1-14.	3.1	33
75	Building occupants' psycho-physiological response to indoor climate and CO_2 concentration changes in office buildings. Building and Environment, 2020, 169, 106596.	3.0	33
76	Production prediction of conventional and global positioning system–based earthmoving systems using simulation and multiple regression analysis. Canadian Journal of Civil Engineering, 2008, 35, 574-587.	0.7	32
77	Development of an integrated energy benchmark for a multi-family housing complex using district heating. Applied Energy, 2016, 179, 1048-1061.	5.1	32
78	Development of a prediction model for the cost saving potentials in implementing the building energy efficiency rating certification. Applied Energy, 2017, 189, 257-270.	5.1	32
79	Selection Model for Delivery Methods for Multifamily-Housing Construction Projects. Journal of Management in Engineering - ASCE, 2011, 27, 106-115.	2.6	31
80	A finite element model for estimating the techno-economic performance of the building-integrated photovoltaic blind. Applied Energy, 2016, 179, 211-227.	5.1	31
81	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.	3.0	31
82	An empirical analysis of environmental pollutants on building construction sites for determining the real-time monitoring indices. Building and Environment, 2020, 170, 106636.	3.0	31
83	Development of a real-time automated monitoring system for managing the hazardous environmental pollutants at the construction site. Journal of Hazardous Materials, 2021, 402, 123483.	6.5	31
84	Occupant-centered real-time control of indoor temperature using deep learning algorithms. Building and Environment, 2022, 208, 108633.	3.0	31
85	Determining the Value of Governmental Subsidies for the Installation of Clean Energy Systems Using Real Options. Journal of Construction Engineering and Management - ASCE, 2012, 138, 422-430.	2.0	30
86	A novel real-time method for HVAC system operation to improve indoor environmental quality in meeting rooms. Building and Environment, 2018, 144, 365-385.	3.0	30
87	Development of a prototype for multi-function smart window by integrating photovoltaic blinds and ventilation system. Building and Environment, 2019, 149, 366-378.	3.0	30
88	An integrated psychological score for occupants based on their perception and emotional response according to the windows' outdoor view size. Building and Environment, 2020, 180, 107019.	3.0	30
89	Construction, Inspection, and Maintenance of FRP Deck Panels. Journal of Composites for Construction, 2006, 10, 561-572.	1.7	29
90	Simulation study on construction process of FRP bridge deck panels. Automation in Construction, 2007, 16, 620-631.	4.8	29

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91	Simulation-based determination of optimal life-cycle cost for FRP bridge deck panels. Automation in Construction, 2007, 16, 140-152.	4.8	29
92	Integrated CO2, cost, and schedule management system for building construction projects using the earned value management theory. Journal of Cleaner Production, 2015, 103, 275-285.	4.6	29
93	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.	1.6	29
94	Simulation-Based Schedule Estimation Model for ACS-Based Core Wall Construction of High-Rise Building. Journal of Construction Engineering and Management - ASCE, 2011, 137, 393-402.	2.0	28
95	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.	4.4	28
96	A Framework for Reducing Dust Emissions and Energy Consumption on Construction Sites.. Energy Procedia, 2019, 158, 5092-5096.	1.8	28
97	Partnering Process Model for Public-Sector Fast-Track Design-Build Projects in Korea. Journal of Management in Engineering - ASCE, 2010, 26, 19-29.	2.6	27
98	Framework for the analysis of the low-carbon scenario 2020 to achieve the national carbon Emissions reduction target: Focused on educational facilities. Energy Policy, 2014, 73, 356-367.	4.2	27
99	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
100	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
101	Revised Case-Based Reasoning Model Development Based on Multiple Regression Analysis for Railroad Bridge Construction. Journal of Construction Engineering and Management - ASCE, 2012, 138, 154-162.	2.0	26
102	An estimation methodology for the dynamic operational rating of a new residential building using the advanced case-based reasoning and stochastic approaches. Applied Energy, 2015, 150, 308-322.	5.1	26
103	Physiological response of building occupants based on their activity and the indoor environmental quality condition changes. Building and Environment, 2018, 145, 96-103.	3.0	26
104	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.	1.2	26
105	Model for Analysis of Factors Affecting Construction Schedule in Highway Work Zones. Journal of Transportation Engineering, 2006, 132, 508-517.	0.9	25
106	CBR-based cost prediction model-II of the design phase for multi-family housing projects. Expert Systems With Applications, 2011, 38, 2797-2808.	4.4	25
107	Prediction Model of CO2 Emission for Residential Buildings in South Korea. Journal of Management in Engineering - ASCE, 2014, 30, .	2.6	25
108	Determining the optimal occupancy density for reducing the energy consumption of public office buildings: A statistical approach. Building and Environment, 2018, 127, 173-186.	3.0	25

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109	Integrated task performance score for the building occupants based on the CO2 concentration and indoor climate factors changes. Applied Energy, 2018, 228, 1707-1713.	5.1	25
110	Development of a multi-objective optimization model for determining the optimal CO2 emissions reduction strategies for a multi-family housing complex. Renewable and Sustainable Energy Reviews, 2019, 110, 118-131.	8.2	25
111	Oversampling-based prediction of environmental complaints related to construction projects with imbalanced empirical-data learning. Renewable and Sustainable Energy Reviews, 2020, 134, 110402.	8.2	25
112	A dynamic energy performance curve for evaluating the historical trends in the energy performance of existing buildings using a simplified case-based reasoning approach. Energy and Buildings, 2015, 92, 338-350.	3.1	24
113	An optimal scheduling model of an energy storage system with a photovoltaic system in residential buildings considering the economic and environmental aspects. Energy and Buildings, 2020, 209, 109701.	3.1	24
114	A model for evaluating the environmental benefits of elementary school facilities. Journal of Environmental Management, 2014, 132, 220-229.	3.8	23
115	An integrated multi-objective optimization model for determining the optimal solution in the solar thermal energy system. Energy, 2016, 102, 416-426.	4.5	23
116	Comparative analysis of methods for integrating various environmental impacts as a single index in life cycle assessment. Environmental Impact Assessment Review, 2016, 57, 123-133.	4.4	23
117	Model for Evaluating the Financial Viability of the BOT Project for Highway Service Areas in South Korea. Journal of Management in Engineering - ASCE, 2016, 32, 04015036.	2.6	23
118	Technical performance analysis of the smart solar photovoltaic blinds based on the solar tracking methods considering the climate factors. Energy and Buildings, 2019, 190, 34-48.	3.1	23
119	Determining the optimal set-point temperature considering both labor productivity and energy saving in an office building. Applied Energy, 2020, 276, 115429.	5.1	23
120	Simulation analysis of productivity variation by global positioning system (GPS) implementation in earthmoving operations. Canadian Journal of Civil Engineering, 2006, 33, 1105-1114.	0.7	22
121	Life-Cycle Cost Analysis on Glass Type of High-Rise Buildings for Increasing Energy Efficiency and Reducing CO2 Emissions in Korea. Journal of Construction Engineering and Management - ASCE, 2012, 138, 897-904.	2.0	22
122	Multi-criteria analysis of a self-consumption strategy for building sectors focused on ground source heat pump systems. Journal of Cleaner Production, 2018, 186, 68-80.	4.6	22
123	Feasibility Analysis of COVID-19 Response Guidelines at Construction Sites in South Korea Using CYCLONE in Terms of Cost and Time. Journal of Management in Engineering - ASCE, 2021, 37, .	2.6	22
124	Prediction of Environmental Costs of Construction Noise and Vibration at the Preconstruction Phase. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	21
125	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.	5.1	21
126	Development of a rooftop solar photovoltaic rating system considering the technical and economic suitability criteria at the building level. Energy, 2018, 160, 213-224.	4.5	21

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127	Development of building driven-energy payback time for energy transition of building with renewable energy systems. Applied Energy, 2020, 271, 115162.	5.1	21
128	A BREAK-EVEN ANALYSIS AND IMPACT ANALYSIS OF RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEMS CONSIDERING STATE SOLAR INCENTIVES. Technological and Economic Development of Economy, 2018, 24, 358-382.	2.3	20
129	Development of the business feasibility evaluation model for a profitable P2P electricity trading by estimating the optimal trading price. Journal of Cleaner Production, 2021, 295, 126138.	4.6	20
130	A mixed (continuous + discrete) time-cost trade-off model considering four different relationships with lag time. KSCE Journal of Civil Engineering, 2013, 17, 281-291.	0.9	19
131	A Lagrangian finite element model for estimating the heating and cooling demand of a residential building with a different envelope design. Applied Energy, 2015, 142, 66-79.	5.1	19
132	Blockchain-based IoT system for personalized indoor temperature control. Automation in Construction, 2022, 140, 104339.	4.8	19
133	Integrated Schedule and Cost Model for Repetitive Construction Process. Journal of Management in Engineering - ASCE, 2010, 26, 78-88.	2.6	18
134	An Economic and Environmental Assessment Model for Selecting the Optimal Implementation Strategy of Fuel Cell Systemsâ€"A Focus on Building Energy Policy. Energies, 2014, 7, 5129-5150.	1.6	18
135	Zoningâ€Based Vertical Transportation Optimization for Workers at Peak Time in a Skyscraper Construction. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 826-845.	6.3	18
136	Improvements of the operational rating system for existing residential buildings. Applied Energy, 2017, 193, 112-124.	5.1	18
137	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.	8.2	18
138	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.	3.9	18
139	Emotional impact, task performance and task load of green walls exposure in a virtual environment. Indoor Air, 2022, 32, .	2.0	18
140	A decision support system for determining the optimal size of a new expressway service area: Focused on the profitability. Decision Support Systems, 2014, 67, 9-20.	3.5	17
141	Development of the life-cycle economic and environmental assessment model for establishing the optimal implementation strategy of the rooftop photovoltaic system. Technological and Economic Development of Economy, 2015, 24, 27-47.	2.3	17
142	Sensitivity Analysis on the Impact Factors of the GSHP System Considering Energy Generation and Environmental Impact Using LCA. Sustainability, 2016, 8, 376.	1.6	17
143	New Internet search volume-based weighting method for integrating various environmental impacts. Environmental Impact Assessment Review, 2016, 56, 128-138.	4.4	17
144	Framework for Approaching the Minimum CV(RMSE) using Energy Simulation and Optimization Tool. Energy Procedia, 2016, 88, 265-270.	1.8	17

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145	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.	3.1	17
146	Automated classification of indoor environmental quality control using stacked ensembles based on electroencephalograms. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 448-464.	6.3	17
147	Framework of Manufacturer and Supplier Relationship in the Manufactured Housing Industry. Journal of Management in Engineering - ASCE, 2013, 29, 369-381.	2.6	16
148	An integrated model for estimating the techno-economic performance of the distributed solar generation system on building faÃ§ades: Focused on energy demand and supply. Applied Energy, 2018, 228, 1071-1090.	5.1	16
149	3D convolutional neural networkâ€based oneâ€stage model for realâ€time action detection in video of construction equipment. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 126-142.	6.3	16
150	Evaluation of the effect of a building energy efficiency certificate in reducing energy consumption in Korean apartments. Energy and Buildings, 2021, 248, 111168.	3.1	16
151	Evaluation and determination of optimal MR&R strategies in concrete bridge decks. Automation in Construction, 2007, 16, 165-175.	4.8	15
152	SPACE ZONING CONCEPT-BASED SCHEDULING MODEL FOR REPETITIVE CONSTRUCTION PROCESS. Journal of Civil Engineering and Management, 2013, 19, 409-421.	1.9	15
153	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.	1.3	15
154	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.	3.9	15
155	Towards environmental sustainability in the local community: Future insights for managing the hazardous pollutants at construction sites. Journal of Hazardous Materials, 2021, 403, 123804.	6.5	15
156	RETRIEVE: REmembering Tool for Reusing the Ideas Evolved in Value Engineering. Automation in Construction, 2009, 18, 1123-1134.	4.8	14
157	An Environmental and Economic Assessment for Selecting the Optimal Ground Heat Exchanger by Considering the Entering Water Temperature. Energies, 2015, 8, 7752-7776.	1.6	14
158	Development of a prediction model for the proportion of buildings exposed to construction noise in excess of the construction noise regulation at urban construction sites. Automation in Construction, 2021, 125, 103656.	4.8	14
159	Evolutionary Game Analysis of Green Loans Program to Achieve the National Carbon Emissions Reduction Target in South Korea. Journal of Management in Engineering - ASCE, 2022, 38, .	2.6	14
160	Scheduling model for repetitive construction processes for high-rise buildings. Canadian Journal of Civil Engineering, 2011, 38, 36-48.	0.7	13
161	Infrastructure asset management system for bridge projects in South Korea. KSCE Journal of Civil Engineering, 2013, 17, 1551-1561.	0.9	13
162	A simplified estimation model for determining the optimal rooftop photovoltaic system for gable roofs. Energy and Buildings, 2017, 151, 320-331.	3.1	13

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163	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.	8.2	13
164	Automated noise exposure assessment model for the health of construction workers. Automation in Construction, 2021, 126, 103657.	4.8	13
165	Determining the optimal trading price of electricity for energy consumers and prosumers. Renewable and Sustainable Energy Reviews, 2022, 154, 111851.	8.2	13
166	Deep Learningâ€"Based Automation of Scan-to-BIM with Modeling Objects from Occluded Point Clouds. Journal of Management in Engineering - ASCE, 2022, 38, .	2.6	13
167	Life-cycle performance model for composites in construction. Composites Part B: Engineering, 2007, 38, 236-246.	5.9	12
168	TECHNICAL COMPARISONS OF SIMULATION-BASED PRODUCTIVITY PREDICTION METHODOLOGIES BY MEANS OF ESTIMATION TOOLS FOCUSING ON CONVENTIONAL EARTHMOVINGS / IMITACINIÅ² PRODUKTYVUMO PROGNOZAVIMO METODIKÅ²TECHNINIS PALYGINIMAS, PASITELKUS VERTINIMO PRIEMONES, AKCENTUOJANTÅ²PRASTUS Å½EMÄ—S DARBUS. Journal of Civil Engineering and Management, 2011, 17, 265-277.	1.9	12
169	A Process for the Implementation of New Renewable Energy Systems in a Building by Considering Environmental and Economic Effect. Sustainability, 2015, 7, 12870-12890.	1.6	12
170	Development of an integrated multi-objective optimization model for determining the optimal solar incentive design. International Journal of Energy Research, 2017, 41, 1749-1766.	2.2	12
171	Improving the prediction performance of the finite element model for estimating the technical performance of the distributed generation of solar power system in a building faÃ§ade. Applied Energy, 2018, 215, 41-53.	5.1	12
172	Housing Market Trend Forecasts through Statistical Comparisons based on Big Data Analytic Methods. Journal of Management in Engineering - ASCE, 2018, 34, 04017054.	2.6	12
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