Taehoon Hong

List of Publications by Citations

220 papers	4,724 citations	37 h-index	51 g-index
230 ext. papers	5,673 ext. citations	7.3 avg, IF	6.37 L-index

#	Paper	IF	Citations
220	Effect of project characteristics on project performance in construction projects based on structural equation model. *Expert Systems With Applications*, **2009**, 36, 10461-10470	7.8	108
219	A review on sustainable construction management strategies for monitoring, diagnosing, and retrofitting the buildings dynamic energy performance: Focused on the operation and maintenance phase. *Applied Energy*, **2015**, 155, 671-707	10.7	107
218	LCC and LCCO2 analysis of green roofs in elementary schools with energy saving measures. *Energy and Buildings*, **2012**, 45, 229-239	7	90
217	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	10.7	87
216	A GIS (geographic information system)-based optimization model for estimating the electricity generation of the rooftop PV (photovoltaic) system. *Energy*, **2014**, 65, 190-199	7.9	84
215	Analysis of South Korea economic growth, carbon dioxide emission, and energy consumption using the Markov switching model. *Renewable and Sustainable Energy Reviews*, **2013**, 18, 543-551	16.2	79
214	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	1.3	78
213	A decision support model for reducing electric energy consumption in elementary school facilities. *Applied Energy*, **2012**, 95, 253-266	10.7	69
212	Development of a new energy efficiency rating system for existing residential buildings. *Energy Policy*, **2014**, 68, 218-231	7.2	68
211	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	10.7	67
210	Economic and environmental evaluation model for selecting the optimum design of green roof systems in elementary schools. *Environmental Science & Technology*, **2012**, 46, 8475-83	10.3	66
209	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	10.7	65
208	An optimization model for selecting the optimal green systems by considering the thermal comfort and energy consumption. *Applied Energy*, **2016**, 169, 682-695	10.7	61
207	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	6.8	59
206	Comparative analysis of decision-making methods for integrating cost and CO2 emission focus on building structural design *Energy and Buildings*, **2014**, 72, 186-194	7	58
205	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	16.2	58
204	Estimation of the monthly average daily solar radiation using geographic information system and advanced case-based reasoning. *Environmental Science & Technology*, **2013**, 47, 4829-39	10.3	57

203	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	7.9	54
202	Assessment Model for Energy Consumption and Greenhouse Gas Emissions during Building Construction. *Journal of Management in Engineering - ASCE*, **2014**, 30, 226-235	5.3	54
201	Cost and CO2 Emission Optimization of Steel Reinforced Concrete Columns in High-Rise Buildings. *Energies*, **2013**, 6, 5609-5624	3.1	53
200	Hybrid LCA model for assessing the embodied environmental impacts of buildings in South Korea. *Environmental Impact Assessment Review*, **2015**, 50, 143-155	5.3	52
199	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	6.5	52
198	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	16.2	51
197	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	7.9	51
196	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	7.8	49
195	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	3	47
194	Framework for the implementation of a new renewable energy system in an educational facility. *Applied Energy*, **2013**, 103, 539-551	10.7	46
193	Decision support model for establishing the optimal energy retrofit strategy for existing multi-family housing complexes. *Energy Policy*, **2014**, 66, 157-169	7.2	44
192	Energy-Saving Techniques for Reducing CO2 Emissions in Elementary Schools. *Journal of Management in Engineering - ASCE*, **2012**, 28, 39-50	5.3	44
191	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	7.9	43
190	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, 4604-12	10.3	43
189	Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex. *Applied Energy*, **2014**, 114, 663-675	10.7	40
188	An integrated evaluation of productivity, cost and CO2 emission between prefabricated and conventional columns. *Journal of Cleaner Production*, **2017**, 142, 2393-2406	10.3	40
187	Determining the Peer-to-Peer electricity trading price and strategy for energy prosumers and consumers within a microgrid. *Applied Energy*, **2020**, 261, 114335	10.7	40
186	A systematic review of the smart energy conservation system: From smart homes to sustainable smart cities. *Renewable and Sustainable Energy Reviews*, **2021**, 140, 110755	16.2	40

185	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	10.7	38
184	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	10.7	37
183	A decision support model for improving a multi-family housing complex based on CO2 emission from electricity consumption. *Journal of Environmental Management*, **2012**, 112, 67-78	7.9	37
182	An optimized gene expression programming model for forecasting the national CO2 emissions in 2030 using the metaheuristic algorithms. *Applied Energy*, **2018**, 228, 808-820	10.7	36
181	Development of a CO2 emission benchmark for achieving the national CO2 emission reduction target by 2030. *Energy and Buildings*, **2018**, 158, 86-94	7	35
180	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	10.7	35
179	Maintenance management process for reducing CO2 emission in shopping mall complexes. *Energy and Buildings*, **2011**, 43, 894-904	7	35
178	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	7.9	34
177	Methodology for assessing human health impacts due to pollutants emitted from building materials. *Building and Environment*, **2016**, 95, 133-144	6.5	34
176	A model for predicting the environmental impacts of educational facilities in the project planning phase. *Journal of Cleaner Production*, **2015**, 107, 538-549	10.3	33
175	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	16.2	32
174	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	1.9	32
173	Changes in energy consumption according to building use type under COVID-19 pandemic in South Korea. *Renewable and Sustainable Energy Reviews*, **2021**, 148, 111294	16.2	32
172	Establishment of an optimal occupant behavior considering the energy consumption and indoor environmental quality by region. *Applied Energy*, **2017**, 204, 1431-1443	10.7	31
171	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	16.2	31
170	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	6.5	30
169	Establishing environmental benchmarks to determine the environmental performance of elementary school buildings using LCA. *Energy and Buildings*, **2016**, 127, 818-829	7	30
168	Development of a prediction model for the cost saving potentials in implementing the building energy efficiency rating certification. *Applied Energy*, **2017**, 189, 257-270	10.7	29

167	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	10.3	29
166	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	10.7	29
165	Automatic calibration model of a building energy simulation using optimization algorithm. *Energy Procedia*, **2017**, 105, 3698-3704	2.3	28
164	Assessment of Seasonal Energy Efficiency Strategies of a Double Skin Façade in a Monsoon Climate Region. *Energies*, **2013**, 6, 4352-4376	3.1	28
163	CBR Revision Model for Improving Cost Prediction Accuracy in Multifamily Housing Projects. *Journal of Management in Engineering - ASCE*, **2010**, 26, 229-236	5.3	28
162	Effect of Delivery Methods on Design Performance in Multifamily Housing Projects. *Journal of Construction Engineering and Management - ASCE*, **2008**, 134, 468-482	4.2	28
161	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	4.2	27
160	Construction, Inspection, and Maintenance of FRP Deck Panels. *Journal of Composites for Construction*, **2006**, 10, 561-572	3.3	27
159	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	6.5	26
158	Evaluation of the influence of design factors on the CO2 emissions and costs of reinforced concrete columns. *Energy and Buildings*, **2014**, 82, 378-384	7	26
157	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	6.5	26
156	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	5.3	26
155	Selection Model for Delivery Methods for Multifamily-Housing Construction Projects. *Journal of Management in Engineering - ASCE*, **2011**, 27, 106-115	5.3	26
154	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	1.3	26
153	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	6.5	25
152	Simulation study on construction process of FRP bridge deck panels. *Automation in Construction*, **2007**, 16, 620-631	9.6	25
151	Simulation-based determination of optimal life-cycle cost for FRP bridge deck panels. *Automation in Construction*, **2007**, 16, 140-152	9.6	25
150	Development of an integrated energy benchmark for a multi-family housing complex using district heating. *Applied Energy*, **2016**, 179, 1048-1061	10.7	25

149	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	10.7	24
148	A finite element model for estimating the techno-economic performance of the building-integrated photovoltaic blind. *Applied Energy*, **2016**, 179, 211-227	10.7	24
147	Partnering Process Model for Public-Sector Fast-Track Design-Build Projects in Korea. *Journal of Management in Engineering - ASCE*, **2010**, 26, 19-29	5.3	23
146	Nonlinearity analysis of the shading effect on the techno-economic performance of the building-integrated photovoltaic blind. *Applied Energy*, **2017**, 194, 467-480	10.7	22
145	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	10.6	22
144	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	10.3	22
143	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	4.2	22
142	Model for Analysis of Factors Affecting Construction Schedule in Highway Work Zones. *Journal of Transportation Engineering*, **2006**, 132, 508-517		22
141	Development of a prototype for multi-function smart window by integrating photovoltaic blinds and ventilation system. *Building and Environment*, **2019**, 149, 366-378	6.5	22
140	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	7	21
139	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	6.5	20
138	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	2.3	20
137	An integrated multi-objective optimization model for determining the optimal solution in the solar thermal energy system. *Energy*, **2016**, 102, 416-426	7.9	20
136	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	7.2	20
135	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	10.7	20
134	CBR-based cost prediction model-II of the design phase for multi-family housing projects. *Expert Systems With Applications*, **2011**, 38, 2797-2808	7.8	20
133	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	4.2	20
132	Building occupants' psycho-physiological response to indoor climate and CO2 concentration changes in office buildings. *Building and Environment*, **2020**, 169, 106596	6.5	20

131	Occupant responses on satisfaction with window size in physical and virtual built environments. *Building and Environment*, **2019**, 166, 106409	6.5	19
130	A Framework for Reducing Dust Emissions and Energy Consumption on Construction Sites.. *Energy Procedia*, **2019**, 158, 5092-5096	2.3	19
129	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	7	19
128	Advanced Strategies for Net-Zero Energy Building: Focused on the Early Phase and Usage Phase of a Building□ Life Cycle. *Sustainability*, **2017**, 9, 2272	3.6	19
127	A model for evaluating the environmental benefits of elementary school facilities. *Journal of Environmental Management*, **2014**, 132, 220-9	7.9	19
126	A psychophysiological effect of indoor thermal condition on college students□learning performance through EEG measurement. *Building and Environment*, **2020**, 184, 107223	6.5	19
125	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	5.3	18
124	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	5.3	18
123	Integrated task performance score for the building occupants based on the CO2 concentration and indoor climate factors changes. *Applied Energy*, **2018**, 228, 1707-1713	10.7	18
122	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	10.7	18
121	Prediction Model of CO2 Emission for Residential Buildings in South Korea. *Journal of Management in Engineering - ASCE*, **2014**, 30, 04014001	5.3	18
120	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	4.2	18
119	An empirical analysis of environmental pollutants on building construction sites for determining the real-time monitoring indices. *Building and Environment*, **2020**, 170, 106636	6.5	18
118	Quantitative health impact assessment of construction noise exposure on the nearby region for noise barrier optimization. *Building and Environment*, **2020**, 176, 106869	6.5	17
117	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	10.3	17
116	Zoning-Based Vertical Transportation Optimization for Workers at Peak Time in a Skyscraper Construction. *Computer-Aided Civil and Infrastructure Engineering*, **2016**, 31, 826-845	8.4	17
115	A Preliminary Study on the 2-axis Hybrid Solar Tracking Method for the Smart Photovoltaic Blind. *Energy Procedia*, **2016**, 88, 484-490	2.3	17
114	A novel real-time method for HVAC system operation to improve indoor environmental quality in meeting rooms. *Building and Environment*, **2018**, 144, 365-385	6.5	17

113	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	6.5	16
112	Spatial perception of ceiling height and type variation in immersive virtual environments. *Building and Environment*, **2019**, 163, 106285	6.5	16
111	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	16.2	16
110	An Economic and Environmental Assessment Model for Selecting the Optimal Implementation Strategy of Fuel Cell Systems A Focus on Building Energy Policy. *Energies*, **2014**, 7, 5129-5150	3.1	16
109	Integrated Schedule and Cost Model for Repetitive Construction Process. *Journal of Management in Engineering - ASCE*, **2010**, 26, 78-88	5.3	16
108	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	12.8	16
107	Determining the optimal occupancy density for reducing the energy consumption of public office buildings: A statistical approach. *Building and Environment*, **2018**, 127, 173-186	6.5	16
106	Physiological response of building occupants based on their activity and the indoor environmental quality condition changes. *Building and Environment*, **2018**, 145, 96-103	6.5	16
105	Improvements of the operational rating system for existing residential buildings. *Applied Energy*, **2017**, 193, 112-124	10.7	15
104	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	16.2	15
103	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	7	15
102	Development of building driven-energy payback time for energy transition of building with renewable energy systems. *Applied Energy*, **2020**, 271, 115162	10.7	15
101	SPACE ZONING CONCEPT-BASED SCHEDULING MODEL FOR REPETITIVE CONSTRUCTION PROCESS. *Journal of Civil Engineering and Management*, **2013**, 19, 409-421	3	15
100	Simulation analysis of productivity variation by global positioning system (GPS) implementation in earthmoving operations. *Canadian Journal of Civil Engineering*, **2006**, 33, 1105-1114	1.3	15
99	Sensitivity Analysis on the Impact Factors of the GSHP System Considering Energy Generation and Environmental Impact Using LCA. *Sustainability*, **2016**, 8, 376	3.6	15
98	Prediction of Environmental Costs of Construction Noise and Vibration at the Preconstruction Phase. *Journal of Management in Engineering - ASCE*, **2015**, 31, 04014079	5.3	14
97	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	4.7	14
96	An integrated model for estimating the techno-economic performance of the distributed solar generation system on building fades: Focused on energy demand and supply. *Applied Energy*, **2018**, 228, 1071-1090	10.7	14

95	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	1.9	14
94	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	16.2	13
93	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	7	13
92	Evaluation and determination of optimal MR&R strategies in concrete bridge decks. *Automation in Construction*, **2007**, 16, 165-175	9.6	13
91	New Internet search volume-based weighting method for integrating various environmental impacts. *Environmental Impact Assessment Review*, **2016**, 56, 128-138	5.3	13
90	Framework for Approaching the Minimum CV(RMSE) using Energy Simulation and Optimization Tool. *Energy Procedia*, **2016**, 88, 265-270	2.3	13
89	Development of an integrated multi-objective optimization model for determining the optimal solar incentive design. *International Journal of Energy Research*, **2017**, 41, 1749-1766	4.5	12
88	Development of a rooftop solar photovoltaic rating system considering the technical and economic suitability criteria at the building level. *Energy*, **2018**, 160, 213-224	7.9	12
87	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	4.7	12
86	An Environmental and Economic Assessment for Selecting the Optimal Ground Heat Exchanger by Considering the Entering Water Temperature. *Energies*, **2015**, 8, 7752-7776	3.1	12
85	A Process for the Implementation of New Renewable Energy Systems in a Building by Considering Environmental and Economic Effect. *Sustainability*, **2015**, 7, 12870-12890	3.6	12
84	Scheduling model for repetitive construction processes for high-rise buildings. *Canadian Journal of Civil Engineering*, **2011**, 38, 36-48	1.3	12
83	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	12
82	Oversampling-based prediction of environmental complaints related to construction projects with imbalanced empirical-data learning. *Renewable and Sustainable Energy Reviews*, **2020**, 134, 110402	16.2	11
81	Framework of Manufacturer and Supplier Relationship in the Manufactured Housing Industry. *Journal of Management in Engineering - ASCE*, **2013**, 29, 369-381	5.3	11
80	RETRIEVE: REmembering Tool for Reusing the Ideas Evolved in Value Engineering. *Automation in Construction*, **2009**, 18, 1123-1134	9.6	11
79	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	10.2	11
78	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 façade. *Applied Energy*, **2018**, 215, 41-53	10.7	10

77	A model for determining the optimal lease payment in the solar lease business for residences and third-party companies With focus on the region and on multi-family housing complexes. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 824-836	16.2	10
76	Infrastructure asset management system for bridge projects in South Korea. *KSCE Journal of Civil Engineering*, **2013**, 17, 1551-1561	1.9	10
75	TECHNICAL COMPARISONS OF SIMULATION-BASED PRODUCTIVITY PREDICTION METHODOLOGIES BY MEANS OF ESTIMATION TOOLS FOCUSING ON CONVENTIONAL EARTHMOVINGS / IMITACINI PRODUKTYVUMO PROGNOZAVIMO METODIK TECHNINIS PALYGINIMAS, PASITELKUS VERTINIMO PRIEMONES, AKCENTUOJANT RASTUS EM DARBUS.	3	10
74	Life-cycle performance model for composites in construction. *Composites Part B: Engineering*, **2007**, 38, 236-246	10	10
73	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	7	10
72	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	2.6	9
71	A simplified estimation model for determining the optimal rooftop photovoltaic system for gable roofs. *Energy and Buildings*, **2017**, 151, 320-331	7	9
70	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	10.2	9
69	Optimal planning of a rooftop PV system using GIS-based reinforcement learning. *Applied Energy*, **2021**, 298, 117239	10.7	9
68	Framework for the validation of simulation-based productivity analysis: focused on curtain wall construction process. *Journal of Civil Engineering and Management*, **2016**, 23, 163-172	3	8
67	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	5.6	8
66	MEMRRES: model for evaluating maintenance, repair and rehabilitation strategies in concrete bridge decks. *Civil Engineering and Environmental Systems*, **2005**, 22, 233-248	2.1	8
65	Estimating the Loss Ratio of Solar Photovoltaic Electricity Generation through Stochastic Analysis. *Journal of Construction Engineering and Project Management*, **2013**, 3, 23-34		8
64	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	10.3	8
63	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, 04021048	5.3	8
62	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	6.5	7
61	Determining the optimal set-point temperature considering both labor productivity and energy saving in an office building. *Applied Energy*, **2020**, 276, 115429	10.7	7
60	DEVELOPMENT OF A DYNAMIC INCENTIVE AND PENALTY PROGRAM FOR IMPROVING THE ENERGY PERFORMANCE OF EXISTING BUILDINGS. *Technological and Economic Development of Economy*, **2018**, 24, 295-317	4.7	7

59	A Preliminary Study for Determining Photovoltaic Panel for a Smart Photovoltaic Blind Considering Usability and Constructability Issues. *Energy Procedia*, **2016**, 88, 363-367	2.3	7
58	Analysis of Techniques Leading to Radical Reduction in Project Cycle Time. *Journal of Construction Engineering and Management - ASCE*, **2008**, 134, 915-927	4.2	7
57	Towards environmental sustainability in the local community: Future insights for managing the hazardous pollutants at construction sites. *Journal of Hazardous Materials*, **2021**, 403, 123804	12.8	7
56	Housing Market Trend Forecasts through Statistical Comparisons based on Big Data Analytic Methods. *Journal of Management in Engineering - ASCE*, **2018**, 34, 04017054	5.3	7
55	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	10.3	6
54	Comparison of the CO2Emissions of Buildings using Input-Output LCA Model and Hybrid LCA Model. *Korean Journal of Construction Engineering and Management*, **2014**, 15, 119-127		6
53	Estimating a Risk-Integrated Schedule Delay for an Office Building Renovation Project by Considering the Project Attributes. *Journal of Management in Engineering - ASCE*, **2020**, 36, 04019040	5.3	6
52	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	9.6	6
51	Embodied and Operational CO2 Emissions of the Elementary School Buildings in Different Climate Zones. *KSCE Journal of Civil Engineering*, **2020**, 24, 1037-1048	1.9	5
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