Taehoon Hong

List of Publications by Year in Descending Order

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	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	16.2	1
219	An indoor environmental quality distribution map based on spatial interpolation methods. *Building and Environment*, **2022**, 213, 108880	6.5	1
218	Effect of building energy efficiency certificate on reducing energy consumption of non-residential buildings in South Korea. *Energy and Buildings*, **2022**, 255, 111701	7	1
217	Statistical analysis of greenhouse gas emissions of South Korean residential buildings. *Renewable and Sustainable Energy Reviews*, **2022**, 156, 111981	16.2	1
216	Determining the optimal trading price of electricity for energy consumers and prosumers. *Renewable and Sustainable Energy Reviews*, **2022**, 154, 111851	16.2	2
215	Advanced Real-Time Pollutant Monitoring Systems for Automatic Environmental Management of Construction Projects Focusing on Field Applicability. *Journal of Management in Engineering - ASCE*, **2022**, 38, 04021075	5.3	4
214	An automatic decision model for optimal noise barrier plan in terms of health impact, productivity, and cost aspects. *Building and Environment*, **2022**, 216, 109033	6.5	0
213	An effect of numerical data through monitoring device on perception of indoor air quality. *Building and Environment*, **2022**, 216, 109044	6.5	0
212	Blockchain-based IoT system for personalized indoor temperature control. *Automation in Construction*, **2022**, 140, 104339	9.6	3
211	Occupant-centered real-time control of indoor temperature using deep learning algorithms. *Building and Environment*, **2021**, 208, 108633	6.5	2
210	Impact of the use of recycled materials on the energy conservation and energy transition of buildings using life cycle assessment: A case study in South Korea. *Renewable and Sustainable Energy Reviews*, **2021**, 155, 111891	16.2	1
209	Construction noise rating based on legal and health impacts. *Automation in Construction*, **2021**, 134, 104053	9.6	2
208	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
207	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
206	Eco-friendly and economically optimal design model (EEODM) to reduce the CO2 emissions and the cost of long-span waffle slabs. *Journal of Cleaner Production*, **2021**, 296, 126367	10.3	1
205	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
204	Automated noise exposure assessment model for the health of construction workers. *Automation in Construction*, **2021**, 126, 103657	9.6	5

203	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
202	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
201	A data-driven approach for establishing a CO2 emission benchmark for a multi-family housing complex using data mining techniques. *Renewable and Sustainable Energy Reviews*, **2021**, 138, 110497	16.2	3
200	Structural Damage Identification with a Tuning-free Hybrid Extended Kalman Filter. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2021**, 31, 391-405	1	1
199	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
198	Optimal planning of a rooftop PV system using GIS-based reinforcement learning. *Applied Energy*, **2021**, 298, 117239	10.7	9
197	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
196	Evaluation of the effect of a building energy efficiency certificate in reducing energy consumption in Korean apartments. *Energy and Buildings*, **2021**, 248, 111168	7	4
195	Psychological and physiological effects of a green wall on occupants: A cross-over study in virtual reality. *Building and Environment*, **2021**, 204, 108134	6.5	5
194	Development of a framework for evaluating the contents and usability of the building life cycle assessment tool. *Renewable and Sustainable Energy Reviews*, **2021**, 150, 111475	16.2	0
193	Energy usage and cost analysis of passive thermal retrofits for low-rise residential buildings in Seoul. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111617	16.2	2
192	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
191	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
190	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
189	Development of building driven-energy payback time for energy transition of building with renewable energy systems. *Applied Energy*, **2020**, 271, 115162	10.7	15
188	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
187	Model for predicting price change patterns in multi-family houses post renovation work in South Korea. *Journal of Asian Architecture and Building Engineering*, **2020**, 19, 230-241	1	1
186	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

185	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
184	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
183	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
182	A new approach for developing a hybrid sun-tracking method of the intelligent photovoltaic blinds considering the weather condition using data mining technique. *Energy and Buildings*, **2020**, 209, 109708	7	5
181	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
180	Multi-objective sustainable design model for integrating CO2 emissions and costs for slabs in office buildings. *Structure and Infrastructure Engineering*, **2020**, 16, 1096-1105	2.9	5
179	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
178	Building occupants' psycho-physiological response to indoor climate and CO2 concentration changes in office buildings. *Building and Environment*, **2020**, 169, 106596	6.5	20
177	Automated classification of indoor environmental quality control using stacked ensembles based on electroencephalograms. *Computer-Aided Civil and Infrastructure Engineering*, **2020**, 35, 448-464	8.4	5
176	Estimating a Risk-Integrated Schedule Delay for an Office Building Renovation Project by Considering the Projects Attributes. *Journal of Management in Engineering - ASCE*, **2020**, 36, 04019040	5.3	6
175	A psychophysiological effect of indoor thermal condition on college students learning performance through EEG measurement. *Building and Environment*, **2020**, 184, 107223	6.5	19
174	Intelligent planning unit for the artificial intelligent based built environment focusing on human-building interaction. *Journal of Asian Architecture and Building Engineering*, **2020**, 1-18	1	2
173	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
172	Occupant responses on satisfaction with window size in physical and virtual built environments. *Building and Environment*, **2019**, 166, 106409	6.5	19
171	A Framework for Reducing Dust Emissions and Energy Consumption on Construction Sites.. *Energy Procedia*, **2019**, 158, 5092-5096	2.3	19
170	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	7	3
169	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
168	Determining the optimal long-term service agreement period and cost considering the uncertain factors in the fuel cell: From the perspectives of the sellers and generators. *Applied Energy*, **2019**, 237, 378-389	10.7	4

167	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
166	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
165	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
164	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
163	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
162	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
161	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
160	Spatial perception of ceiling height and type variation in immersive virtual environments. *Building and Environment*, **2019**, 163, 106285	6.5	16
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	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	6.5	2
157	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
156	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
155	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
154	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 fa□de. *Applied Energy*, **2018**, 215, 41-53	10.7	10
153	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
152	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
151	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
150	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	4.7	3

149	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
148	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
147	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
146	Framework for Calculating the Rooftop Solar Photovoltaic (PV) Footprint Considering Building Electricity Supply and Demand from the Urban Level. *Green Energy and Technology*, **2018**, 511-523	0.6	
145	Energy Efficiency in the Building Sector: The Effect of Residential Progressive Electricity Tariffs on the Economic Performance of the Building-Integrated Photovoltaic Blind. *Green Energy and Technology*, **2018**, 793-808	0.6	
144	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
143	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
142	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
141	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	16.2	1
140	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
139	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
138	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
137	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
136	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
135	Nonlinearity analysis of the shading effect on the technical-economic performance of the building-integrated photovoltaic blind. *Applied Energy*, **2017**, 194, 467-480	10.7	22
134	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
133	Improvements of the operational rating system for existing residential buildings. *Applied Energy*, **2017**, 193, 112-124	10.7	15
132	Automatic calibration model of a building energy simulation using optimization algorithm. *Energy Procedia*, **2017**, 105, 3698-3704	2.3	28

131	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
130	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
129	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
128	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
127	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
126	Mapping the Rescue Equipment Mobilization Potential: Decision Support Tool for Emergency Management. *Journal of Management in Engineering - ASCE*, **2017**, 33, 04017037	5.3	3
125	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	7	4
124	A simplified estimation model for determining the optimal rooftop photovoltaic system for gable roofs. *Energy and Buildings*, **2017**, 151, 320-331	7	9
123	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
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	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
114	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

113	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
112	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
111	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
110	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
109	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
108	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
107	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
106	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
105	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
104	Methodology for assessing human health impacts due to pollutants emitted from building materials. *Building and Environment*, **2016**, 95, 133-144	6.5	34
103	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
102	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
101	Establishing environmental benchmarks to determine the environmental performance of elementary school buildings using LCA. *Energy and Buildings*, **2016**, 127, 818-829	7	30
100	Framework for Optimizing the Solar Incentive from the Perspectives of Residents and Policy Makers. *Energy Procedia*, **2016**, 103, 189-194	2.3	
99	New Internet search volume-based weighting method for integrating various environmental impacts. *Environmental Impact Assessment Review*, **2016**, 56, 128-138	5.3	13
98	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
97	Framework for Approaching the Minimum CV(RMSE) using Energy Simulation and Optimization Tool. *Energy Procedia*, **2016**, 88, 265-270	2.3	13
96	Development of an integrated energy benchmark for a multi-family housing complex using district heating. *Applied Energy*, **2016**, 179, 1048-1061	10.7	25

95	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
94	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
93	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
92	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
91	Conversion Method for Obtaining CO2 Emission Data from the Life Cycle Inventory Database of Foreign Countries. *Journal of Management in Engineering - ASCE*, **2015**, 31, 04014059	5.3	1
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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

77	Development of a new energy efficiency rating system for existing residential buildings. *Energy Policy*, **2014**, 68, 218-231	7.2	68
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	Development of the Process for Deploying Optimal Photovoltaic System. *Energy Procedia*, **2014**, 61, 1544-1548	1.3	1
64	Prediction Model of CO2 Emission for Residential Buildings in South Korea. *Journal of Management in Engineering - ASCE*, **2014**, 30, 04014001	5.3	18
63	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
62	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
61	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
60	A model for evaluating the environmental benefits of elementary school facilities. *Journal of Environmental Management*, **2014**, 132, 220-9	7.9	19

59	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
58	Infrastructure asset management system for bridge projects in South Korea. *KSCE Journal of Civil Engineering*, **2013**, 17, 1551-1561	1.9	10
57	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
56	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
55	Framework for the implementation of a new renewable energy system in an educational facility. *Applied Energy*, **2013**, 103, 539-551	10.7	46
54	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
53	Assessment of Seasonal Energy Efficiency Strategies of a Double Skin Fade in a Monsoon Climate Region. *Energies*, **2013**, 6, 4352-4376	3.1	28
52	Cost and CO2 Emission Optimization of Steel Reinforced Concrete Columns in High-Rise Buildings. *Energies*, **2013**, 6, 5609-5624	3.1	53
51	Framework of Manufacturer and Supplier Relationship in the Manufactured Housing Industry. *Journal of Management in Engineering - ASCE*, **2013**, 29, 369-381	5.3	11
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49	Estimating the Loss Ratio of Solar Photovoltaic Electricity Generation through Stochastic Analysis. *Journal of Construction Engineering and Project Management*, **2013**, 3, 23-34		8
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