

Minhyun Lee

List of Publications by Year in descending order

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61
papers

1,989
citations

218677

26
h-index

265206

42
g-index

62
all docs

62
docs citations

62
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on sustainable construction management strategies for monitoring, diagnosing, and retrofitting the building's dynamic energy performance: Focused on the operation and maintenance phase. <i>Applied Energy</i> , 2015, 155, 671-707.	10.1	140
2	Development of a method for estimating the rooftop solar photovoltaic (PV) potential by analyzing the available rooftop area using Hillshade analysis. <i>Applied Energy</i> , 2017, 194, 320-332.	10.1	127
3	Development of a new energy benchmark for improving the operational rating system of office buildings using various data-mining techniques. <i>Applied Energy</i> , 2016, 173, 225-237.	10.1	92
4	Determining the Peer-to-Peer electricity trading price and strategy for energy prosumers and consumers within a microgrid. <i>Applied Energy</i> , 2020, 261, 114335.	10.1	85
5	Development of a new energy efficiency rating system for existing residential buildings. <i>Energy Policy</i> , 2014, 68, 218-231.	8.8	78
6	An integrated multi-objective optimization model for determining the optimal solution in implementing the rooftop photovoltaic system. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 822-837.	16.4	65
7	Estimation of the Monthly Average Daily Solar Radiation using Geographic Information System and Advanced Case-Based Reasoning. <i>Environmental Science & Technology</i> , 2013, 47, 4829-4839.	10.0	63
8	An integrated evaluation of productivity, cost and CO2 emission between prefabricated and conventional columns. <i>Journal of Cleaner Production</i> , 2017, 142, 2393-2406.	9.3	61
9	A multi-objective optimization model for determining the building design and occupant behaviors based on energy, economic, and environmental performance. <i>Energy</i> , 2019, 174, 823-834.	8.8	55
10	A bottom-up approach for estimating the economic potential of the rooftop solar photovoltaic system considering the spatial and temporal diversity. <i>Applied Energy</i> , 2018, 232, 640-656.	10.1	54
11	Occupant responses on satisfaction with window size in physical and virtual built environments. <i>Building and Environment</i> , 2019, 166, 106409.	6.9	54
12	Impact of different LEED versions for green building certification and energy efficiency rating system: A Multifamily Midrise case study. <i>Applied Energy</i> , 2017, 205, 732-740.	10.1	53
13	Framework for the Mapping of the Monthly Average Daily Solar Radiation Using an Advanced Case-Based Reasoning and a Geostatistical Technique. <i>Environmental Science & Technology</i> , 2014, 48, 4604-4612.	10.0	50
14	Establishment of an optimal occupant behavior considering the energy consumption and indoor environmental quality by region. <i>Applied Energy</i> , 2017, 204, 1431-1443.	10.1	50
15	Determining the optimal window size of office buildings considering the workers' task performance and the building's energy consumption. <i>Building and Environment</i> , 2020, 177, 106872.	6.9	47
16	How to better share energy towards a carbon-neutral city? A review on application strategies of battery energy storage system in city. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112113.	16.4	44
17	Development of an evaluation process for green and non-green buildings focused on energy performance of G-SEED and LEED. <i>Building and Environment</i> , 2016, 105, 172-184.	6.9	38
18	An economic impact analysis of state solar incentives for improving financial performance of residential solar photovoltaic systems in the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 590-607.	16.4	38

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19	Hybrid agent-based modeling of rooftop solar photovoltaic adoption by integrating the geographic information system and data mining technique. <i>Energy Conversion and Management</i> , 2019, 183, 266-279.	9.2	38
20	Establishing environmental benchmarks to determine the environmental performance of elementary school buildings using LCA. <i>Energy and Buildings</i> , 2016, 127, 818-829.	6.7	35
21	Techno-economic performance analysis of the smart solar photovoltaic blinds considering the photovoltaic panel type and the solar tracking method. <i>Energy and Buildings</i> , 2019, 193, 1-14.	6.7	33
22	Development of an integrated energy benchmark for a multi-family housing complex using district heating. <i>Applied Energy</i> , 2016, 179, 1048-1061.	10.1	32
23	Development of a prediction model for the cost saving potentials in implementing the building energy efficiency rating certification. <i>Applied Energy</i> , 2017, 189, 257-270.	10.1	32
24	Analyzing the real-time indoor environmental quality factors considering the influence of the building occupants' behaviors and the ventilation. <i>Building and Environment</i> , 2019, 156, 99-109.	6.9	31
25	Development of a prototype for multi-function smart window by integrating photovoltaic blinds and ventilation system. <i>Building and Environment</i> , 2019, 149, 366-378.	6.9	30
26	A Framework for Reducing Dust Emissions and Energy Consumption on Construction Sites.. <i>Energy Procedia</i> , 2019, 158, 5092-5096.	1.8	28
27	Estimation of the Available Rooftop Area for Installing the Rooftop Solar Photovoltaic (PV) System by Analyzing the Building Shadow Using Hillshade Analysis. <i>Energy Procedia</i> , 2016, 88, 408-413.	1.8	27
28	A Preliminary Study on the 2-axis Hybrid Solar Tracking Method for the Smart Photovoltaic Blind. <i>Energy Procedia</i> , 2016, 88, 484-490.	1.8	27
29	An estimation methodology for the dynamic operational rating of a new residential building using the advanced case-based reasoning and stochastic approaches. <i>Applied Energy</i> , 2015, 150, 308-322.	10.1	26
30	Physiological response of building occupants based on their activity and the indoor environmental quality condition changes. <i>Building and Environment</i> , 2018, 145, 96-103.	6.9	26
31	Determining the optimal occupancy density for reducing the energy consumption of public office buildings: A statistical approach. <i>Building and Environment</i> , 2018, 127, 173-186.	6.9	25
32	An optimal scheduling model of an energy storage system with a photovoltaic system in residential buildings considering the economic and environmental aspects. <i>Energy and Buildings</i> , 2020, 209, 109701.	6.7	24
33	An integrated multi-objective optimization model for determining the optimal solution in the solar thermal energy system. <i>Energy</i> , 2016, 102, 416-426.	8.8	23
34	Technical performance analysis of the smart solar photovoltaic blinds based on the solar tracking methods considering the climate factors. <i>Energy and Buildings</i> , 2019, 190, 34-48.	6.7	23
35	An economic impact analysis of residential progressive electricity tariffs in implementing the building-integrated photovoltaic blind using an advanced finite element model. <i>Applied Energy</i> , 2017, 202, 259-274.	10.1	21
36	Development of a rooftop solar photovoltaic rating system considering the technical and economic suitability criteria at the building level. <i>Energy</i> , 2018, 160, 213-224.	8.8	21

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37	Development of building driven-energy payback time for energy transition of building with renewable energy systems. <i>Applied Energy</i> , 2020, 271, 115162.	10.1	21
38	Influence of interior layouts on occupant energy-saving behaviour in buildings: An integrated approach using Agent-Based Modelling, System Dynamics and Building Information Modelling. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112382.	16.4	21
39	A BREAK-EVEN ANALYSIS AND IMPACT ANALYSIS OF RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEMS CONSIDERING STATE SOLAR INCENTIVES. <i>Technological and Economic Development of Economy</i> , 2018, 24, 358-382.	4.6	20
40	Development of the business feasibility evaluation model for a profitable P2P electricity trading by estimating the optimal trading price. <i>Journal of Cleaner Production</i> , 2021, 295, 126138.	9.3	20
41	Improvements of the operational rating system for existing residential buildings. <i>Applied Energy</i> , 2017, 193, 112-124.	10.1	18
42	Establishment of a base price for the Solar Renewable Energy Credit (SREC) from the perspective of residents and state governments in the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 1066-1080.	16.4	18
43	Multi-criteria decision support system of the photovoltaic and solar thermal energy systems using the multi-objective optimization algorithm. <i>Science of the Total Environment</i> , 2019, 659, 1100-1114.	8.0	18
44	Sensitivity Analysis on the Impact Factors of the GSHP System Considering Energy Generation and Environmental Impact Using LCA. <i>Sustainability</i> , 2016, 8, 376.	3.2	17
45	Framework for Approaching the Minimum CV(RMSE) using Energy Simulation and Optimization Tool. <i>Energy Procedia</i> , 2016, 88, 265-270.	1.8	17
46	A Prototype Design and Development of the Smart Photovoltaic System Blind Considering the Photovoltaic Panel, Tracking System, and Monitoring System. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1077.	2.5	15
47	The effects of filters for an intelligent air pollutant control system considering natural ventilation and the occupants. <i>Science of the Total Environment</i> , 2019, 657, 410-419.	8.0	15
48	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. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 824-836.	16.4	13
49	Determining the optimal trading price of electricity for energy consumers and prosumers. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111851.	16.4	13
50	Development of an integrated multi-objective optimization model for determining the optimal solar incentive design. <i>International Journal of Energy Research</i> , 2017, 41, 1749-1766.	4.5	12
51	A new approach for developing a hybrid sun-tracking method of the intelligent photovoltaic blinds considering the weather condition using data mining technique. <i>Energy and Buildings</i> , 2020, 209, 109708.	6.7	11
52	A Preliminary Study for Determining Photovoltaic Panel for a Smart Photovoltaic Blind Considering Usability and Constructability Issues. <i>Energy Procedia</i> , 2016, 88, 363-367.	1.8	10
53	Estimating the Loss Ratio of Solar Photovoltaic Electricity Generation through Stochastic Analysis. <i>Journal of Construction Engineering and Project Management</i> , 2013, 3, 23-34.	0.6	9
54	Development of the hybrid model for estimating the undisturbed ground temperature using the finite element method and geostatistical technique. <i>Energy and Buildings</i> , 2017, 152, 162-174.	6.7	7

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55	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	6
56	Mapping the Rescue Equipment Mobilization Potential: Decision Support Tool for Emergency Management. Journal of Management in Engineering - ASCE, 2017, 33, 04017037.	4.8	5
57	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.	10.1	4
58	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.	16.4	2
59	Development of the Process for Deploying Optimal Photovoltaic System. Energy Procedia, 2014, 61, 1544-1548.	1.8	1
60	Framework for Optimizing the Solar Incentive from the Perspectives of Residents and Policy Makers. Energy Procedia, 2016, 103, 189-194.	1.8	0
61	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	0