

Jeong Tai Kim

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

2,991
citations

30
h-index

46
g-index

137
ext. papers

3,417
ext. citations

3.9
avg, IF

5.56
L-index

#	Paper	IF	Citations
120	Comparative advantage of an exterior shading device in thermal performance for residential buildings. <i>Energy and Buildings</i> , 2012 , 46, 105-111	7	148
119	Effects of occupancy and lighting use patterns on lighting energy consumption. <i>Energy and Buildings</i> , 2012 , 46, 152-158	7	115
118	Human Activity Recognition via Recognized Body Parts of Human Depth Silhouettes for Residents Monitoring Services at Smart Home. <i>Indoor and Built Environment</i> , 2013 , 22, 271-279	1.8	99
117	Optimization of the building integrated photovoltaic system in office buildings Focus on the orientation, inclined angle and installed area. <i>Energy and Buildings</i> , 2012 , 46, 92-104	7	88
116	Overview and new developments in optical daylighting systems for building a healthy indoor environment. <i>Building and Environment</i> , 2010 , 45, 256-269	6.5	85
115	A field survey of visual comfort and lighting energy consumption in open plan offices. <i>Energy and Buildings</i> , 2012 , 46, 146-151	7	74
114	The energy-saving effects of apartment residents awareness and behavior. <i>Energy and Buildings</i> , 2012 , 46, 112-122	7	70
113	Energy consumption characteristics of high-rise apartment buildings according to building shape and mixed-use development. <i>Energy and Buildings</i> , 2012 , 46, 123-131	7	67
112	Multi-objective optimization of indoor air quality control and energy consumption minimization in a subway ventilation system. <i>Energy and Buildings</i> , 2013 , 66, 553-561	7	62
111	Development of the adaptive PMV model for improving prediction performances. <i>Energy and Buildings</i> , 2015 , 98, 100-105	7	56
110	The effect of moisture transportation on energy efficiency and IAQ in residential buildings. <i>Energy and Buildings</i> , 2014 , 75, 439-446	7	56
109	Theoretical analysis of the blinds integrated photovoltaic modules. <i>Energy and Buildings</i> , 2012 , 46, 86-91	7	52
108	View types and luminance effects on discomfort glare assessment from windows. <i>Energy and Buildings</i> , 2012 , 46, 139-145	7	49
107	Indoor air quality control for improving passenger health in subway platforms using an outdoor air quality dependent ventilation system. <i>Building and Environment</i> , 2015 , 92, 407-417	6.5	49
106	Thermal comfort prediction of an underfloor air distribution system in a large indoor environment. <i>Energy and Buildings</i> , 2013 , 64, 323-331	7	46
105	A method for evaluating the performance of green buildings with a focus on user experience. <i>Energy and Buildings</i> , 2013 , 66, 203-210	7	43
104	The performance simulation of all-glass vacuum tubes with coaxial fluid conduit. <i>International Communications in Heat and Mass Transfer</i> , 2007 , 34, 587-597	5.8	42

103	Predictive monitoring and diagnosis of periodic air pollution in a subway station. <i>Journal of Hazardous Materials</i> , 2010 , 183, 448-59	12.8	38
102	Development of a Double-Skin Façade for Sustainable Renovation of Old Residential Buildings. <i>Indoor and Built Environment</i> , 2013 , 22, 180-190	1.8	37
101	Application of Dielectric Barrier Discharge Reactor Immersed in Wastewater to the Oxidative Degradation of Organic Contaminant. <i>Plasma Chemistry and Plasma Processing</i> , 2007 , 27, 51-64	3.6	37
100	Healthy-daylighting design for the living environment in apartments in Korea. <i>Building and Environment</i> , 2010 , 45, 287-294	6.5	36
99	Sustainable development and requirements for energy efficiency in buildings – The Korean perspectives. <i>Indoor and Built Environment</i> , 2018 , 27, 734-751	1.8	34
98	Tuning control of buildings glazing’s transmittance dependence on the solar radiation wavelength to optimize daylighting and building’s energy efficiency. <i>Energy and Buildings</i> , 2013 , 63, 108-118	7	34
97	Energy-efficient algorithms of the steam curing for the in situ production of precast concrete members. <i>Energy and Buildings</i> , 2013 , 64, 275-284	7	33
96	Evaluation of passenger health risk assessment of sustainable indoor air quality monitoring in metro systems based on a non-Gaussian dynamic sensor validation method. <i>Journal of Hazardous Materials</i> , 2014 , 278, 124-33	12.8	30
95	A new apartment construction technology with effective CO2 emission reduction capabilities. <i>Energy</i> , 2010 , 35, 2639-2646	7.9	30
94	Multivariate Monitoring and Local Interpretation of Indoor Air Quality in Seoul’s Metro System. <i>Environmental Engineering Science</i> , 2010 , 27, 721-731	2	28
93	The Effect of Seasons and Prevailing Environments on Adaptive Comfort Temperatures in Open Plan Offices. <i>Indoor and Built Environment</i> , 2012 , 21, 41-47	1.8	28
92	A three-dimensional performance analysis of all-glass vacuum tubes with coaxial fluid conduit. <i>International Communications in Heat and Mass Transfer</i> , 2008 , 35, 589-596	5.8	28
91	Application of high-density daylight for indoor illumination. <i>Energy</i> , 2010 , 35, 2654-2666	7.9	27
90	Online monitoring and interpretation of periodic diurnal and seasonal variations of indoor air pollutants in a subway station using parallel factor analysis (PARAFAC). <i>Energy and Buildings</i> , 2014 , 68, 87-98	7	26
89	Towards sustainability index for healthy buildings – Via intrinsic thermodynamics, green accounting and harmony. <i>Energy and Buildings</i> , 2013 , 62, 627-637	7	26
88	Thermal and Mechanical Properties of Epoxy/Carbon Fiber Composites Reinforced with Multi-walled Carbon Nanotubes. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 358-367	1.4	26
87	A Critical Review of User Studies on Healthy Smart Homes. <i>Indoor and Built Environment</i> , 2013 , 22, 260-270	1.8	26
86	Energy performance of direct expansion air handling unit in office buildings. <i>Energy and Buildings</i> , 2014 , 77, 425-431	7	25

85	Energy Benefit of the Underfloor Air Distribution System for Reducing Air-Conditioning and Heating Loads in Buildings. <i>Indoor and Built Environment</i> , 2012 , 21, 62-70	1.8	25
84	Gain scheduling based ventilation control with varying periodic indoor air quality (IAQ) dynamics for healthy IAQ and energy savings. <i>Energy and Buildings</i> , 2017 , 153, 275-286	7	24
83	Optimum energy use to satisfy indoor air quality needs. <i>Energy and Buildings</i> , 2012 , 46, 62-67	7	23
82	Buildings energy sustainability and health research via interdisciplinarity and harmony. <i>Energy and Buildings</i> , 2012 , 47, 12-18	7	23
81	An Analysis of the CO2 Reduction Effect of a Column-Beam Structure Using Composite Precast Concrete Members. <i>Indoor and Built Environment</i> , 2012 , 21, 150-162	1.8	23
80	Hazardous materials in buildings. <i>Indoor and Built Environment</i> , 2014 , 23, 44-61	1.8	22
79	Energy use of households in apartment complexes with different service life. <i>Energy and Buildings</i> , 2013 , 66, 591-598	7	22
78	Data-driven prediction model of indoor air quality in an underground space. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 1675-1680	2.8	22
77	Beyond the science and art of the healthy buildings daylighting dynamic control's performance prediction and validation. <i>Energy and Buildings</i> , 2012 , 46, 159-166	7	20
76	Energy efficiencies of linear-shaped multi-residential apartment buildings built with hybrid structural systems. <i>Energy and Buildings</i> , 2012 , 46, 30-36	7	20
75	Experimental investigation of an energy-efficient hybrid composite beam during the construction phase. <i>Energy and Buildings</i> , 2012 , 46, 37-47	7	19
74	Sensor fault identification and reconstruction of indoor air quality (IAQ) data using a multivariate non-Gaussian model in underground building space. <i>Energy and Buildings</i> , 2013 , 66, 384-394	7	19
73	Material Emissions and Indoor Simulation. <i>Indoor and Built Environment</i> , 2013 , 22, 21-29	1.8	19
72	The position index of a glare source at the borderline between comfort and discomfort (BCD) in the whole visual field. <i>Building and Environment</i> , 2009 , 44, 1017-1023	6.5	19
71	Residents Adjusting Behaviour to Enhance Indoor Environmental Comfort in Apartments. <i>Indoor and Built Environment</i> , 2012 , 21, 28-40	1.8	19
70	A finish material management system for indoor air quality of apartment buildings (FinIAQ). <i>Energy and Buildings</i> , 2012 , 46, 68-79	7	18
69	The development of modularized construction of enhanced precast composite structural systems (Smart Green frame) and its embedded energy efficiency. <i>Energy and Buildings</i> , 2013 , 66, 16-21	7	18
68	A real-time monitoring and assessment method for calculation of total amounts of indoor air pollutants emitted in subway stations. <i>Journal of the Air and Waste Management Association</i> , 2012 , 62, 517-26	2.4	18

67	Economical control of indoor air quality in underground metro station using an iterative dynamic programming-based ventilation system. <i>Indoor and Built Environment</i> , 2016 , 25, 949-961	1.8	17
66	The Reality of Light Pollution: A Field Survey for the Determination of Lighting Environmental Management Zones in South Korea. <i>Sustainability</i> , 2018 , 10, 374	3.6	17
65	Luminous impact of balcony floor at atrium spaces with different well geometries. <i>Building and Environment</i> , 2010 , 45, 304-310	6.5	16
64	A first approach to discomfort glare in the presence of non-uniform luminance. <i>Building and Environment</i> , 2008 , 43, 1953-1960	6.5	16
63	In search for modeling predictive control of indoor air quality and ventilation energy demand in subway station. <i>Energy and Buildings</i> , 2015 , 98, 56-65	7	15
62	Health Smart Home Services incorporating a MAR-based Energy Consumption Awareness System. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 79, 523-535	2.9	15
61	Numerical modeling of volatile organic compound emissions from multi-layer dry building materials. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 1049-1055	2.8	15
60	Role of Design Audits in Reducing Errors and Rework: Lessons from Hong Kong. <i>Journal of Performance of Constructed Facilities</i> , 2014 , 28, 511-517	2	13
59	An Indoor Human Activity Recognition System for Smart Home Using Local Binary Pattern Features with Hidden Markov Models. <i>Indoor and Built Environment</i> , 2013 , 22, 289-298	1.8	13
58	The Service Pattern-Oriented Smart Bedroom Based on Elderly Spatial Behaviour Patterns. <i>Indoor and Built Environment</i> , 2013 , 22, 299-308	1.8	13
57	A distribution chart of glare sensation over the whole visual field. <i>Building and Environment</i> , 2010 , 45, 922-928	6.5	13
56	Probabilistic Assessment of Design Error Costs. <i>Journal of Performance of Constructed Facilities</i> , 2014 , 28, 518-527	2	12
55	Periodic Local Multi-way Analysis and Monitoring of Indoor Air Quality in a Subway System Considering the Weekly Effect. <i>Indoor and Built Environment</i> , 2013 , 22, 77-93	1.8	12
54	The Effect of the Public Exercise Environment on the Physical Activity for the Active Ageing of the Elderly. <i>Indoor and Built Environment</i> , 2013 , 22, 319-331	1.8	12
53	Energy-Saving Potential of LED Lighting Systems. <i>Indoor and Built Environment</i> , 2013 , 22, 235-241	1.8	12
52	The effect of different treatment methods of multiwalled carbon nanotubes on thermal and flexural properties of their epoxy nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1175-1184	2.6	12
51	A study on the application of sorptive building materials to reduce the concentration and volume of contaminants inhaled by occupants in office areas. <i>Energy and Buildings</i> , 2015 , 98, 10-18	7	11
50	Sustainable and healthy buildings. <i>Energy and Buildings</i> , 2012 , 46, 1-2	7	11

49	Influence of Organizational and Project Practices on Design Error Costs. <i>Journal of Performance of Constructed Facilities</i> , 2014 , 28, 303-310	2	11
48	Sustainable Monitoring of Indoor Air Pollutants in an Underground Subway Environment Using Self-Validating Soft Sensors. <i>Indoor and Built Environment</i> , 2013 , 22, 94-109	1.8	11
47	Overall Environmental Modelling of Newly Designed Curtain Wall Façade Configurations. <i>Indoor and Built Environment</i> , 2013 , 22, 168-179	1.8	10
46	Identifying Characteristics of Design Guidelines for Elderly Care Environments from the Holistic Health Perspective. <i>Indoor and Built Environment</i> , 2013 , 22, 242-259	1.8	10
45	A Lifecycle Health Performance Tree for Sustainable Healthy Buildings. <i>Indoor and Built Environment</i> , 2012 , 21, 16-27	1.8	10
44	Thermal and Non-Thermal Stimuli for the Use of Windows in Offices. <i>Indoor and Built Environment</i> , 2012 , 21, 109-121	1.8	10
43	Modeling luminous efficacy of daylight for Yongin, South Korea. <i>Energy and Buildings</i> , 2013 , 62, 550-558	7	9
42	Power performance of photovoltaic-integrated lightshelf systems. <i>Indoor and Built Environment</i> , 2014 , 23, 180-188	1.8	9
41	Analysis and prediction of indoor air pollutants in a subway station using a new key variable selection method. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 994-1003	2.8	9
40	Thermal and Tensile Properties of Epoxy Nanocomposites Reinforced by Silane-functionalized Multiwalled Carbon Nanotubes. <i>Journal of Macromolecular Science - Physics</i> , 2010 , 49, 132-142	1.4	9
39	Optimal Illuminance of Seven Major Lighting Colours in LED: Focus on Occupant Comfort and Communication in an Indoor Environment. <i>Indoor and Built Environment</i> , 2012 , 21, 122-128	1.8	9
38	Evaluation of an optimal ventilation IAQ control strategy using control performance assessment and energy demand. <i>Energy and Buildings</i> , 2015 , 98, 134-143	7	7
37	Adaptive neuro-fuzzy inference system based faulty sensor monitoring of indoor air quality in a subway station. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 528-539	2.8	7
36	Depth video-based gait recognition for smart home using local directional pattern features and hidden Markov model. <i>Indoor and Built Environment</i> , 2014 , 23, 133-140	1.8	7
35	Characteristics of the Quality of Korean High-Rise Apartments Using the Health Performance Indicator. <i>Indoor and Built Environment</i> , 2013 , 22, 157-167	1.8	7
34	The energy efficient expansion remodeling construction method of bearing wall apartment buildings with pre-cast composite structural systems. <i>Energy and Buildings</i> , 2013 , 66, 714-723	7	6
33	Characteristics of Particleboards Using Tannin Resin as Novel Environment-Friendly Adhesion System. <i>Indoor and Built Environment</i> , 2013 , 22, 61-67	1.8	6
32	Evaluation of the influence of hygric properties of wallpapers on mould growth rates using hygrothermal simulation. <i>Energy and Buildings</i> , 2015 , 98, 113-118	7	6

31	Finding the optimal set points of a thermal and ventilation control system under changing outdoor weather conditions. <i>Indoor and Built Environment</i> , 2014 , 23, 118-132	1.8	6
30	Reduction Effect of Toxic Substances for Apartment Buildings with an Ecofriendly Pre-cast Composite Structural System. <i>Indoor and Built Environment</i> , 2013 , 22, 110-116	1.8	6
29	Thermal Extractor Analysis of VOCs Emitted from Building Materials and Evaluation of the Reduction Performance of Exfoliated Graphite Nanoplatelets. <i>Indoor and Built Environment</i> , 2013 , 22, 68-76	1.8	6
28	An Assessment of CO2 Emission of the Structural Composite Hybrid Beam Based on Strain Compatibility. <i>Indoor and Built Environment</i> , 2013 , 22, 117-130	1.8	6
27	The Impact of Distance on the Accuracy of Luminance Measurement. <i>Energy Procedia</i> , 2014 , 62, 612-618	2.3	5
26	A Computing Model for Lifecycle Health Performance Evaluations of Sustainable Healthy Buildings. <i>Indoor and Built Environment</i> , 2013 , 22, 7-20	1.8	5
25	A Smart Workspace Supporting a Healthy Life in Pre-elderly Households. <i>Indoor and Built Environment</i> , 2013 , 22, 280-288	1.8	5
24	Phase Separation in Poly(Methyl Methacrylate)-Epoxy Blend. <i>Journal of Macromolecular Science - Physics</i> , 2009 , 48, 626-634	1.4	5
23	Residents' Responses on indoor environment quality and energy use in apartments. <i>Energy and Buildings</i> , 2015 , 98, 34-38	7	4
22	Feasibility Study on LED Street Lighting with Smart Dimming Systems in Wooi Stream, Seoul. <i>Journal of Asian Architecture and Building Engineering</i> , 2017 , 16, 425-430	1	4
21	A prediction method to identify the glare source in a window with non-uniform luminance distribution. <i>Energy and Buildings</i> , 2012 , 46, 132-138	7	4
20	Scenario-Based Smart Services for Single-Person Households. <i>Indoor and Built Environment</i> , 2013 , 22, 309-318	1.8	4
19	Sustainable lighting performance of refurbished glazed walls for old residential buildings. <i>Energy and Buildings</i> , 2015 , 91, 163-169	7	3
18	Creating Sustainable Building through Exploiting Human Comfort. <i>Energy Procedia</i> , 2014 , 62, 590-594	2.3	3
17	Subjective Responses to Changes in Spectral Power Distributions of LED Light. <i>Indoor and Built Environment</i> , 2013 , 22, 226-234	1.8	3
16	Optical Daylighting Performance of an Active Mirror System for Visual Sustainability of Residential Environment. <i>Indoor and Built Environment</i> , 2013 , 22, 212-225	1.8	3
15	Daylight Availability Models for Global and Diffuse Horizontal Illuminance in Yongin, South Korea. <i>Indoor and Built Environment</i> , 2013 , 22, 203-211	1.8	3
14	Evaluation of global vertical illuminance and irradiance models against data from Yongin, South Korea. <i>Energy and Buildings</i> , 2015 , 91, 139-147	7	2

13	Long/Short-Term Performance Test for Evaluating the Reduction of Indoor Formaldehyde Using Sorptive Building Materials. <i>Indoor and Built Environment</i> , 2013 , 22, 52-60	1.8	2
12	Miscibility of Solution Blends of Unsaturated Polyester Resin with Polystyrene and Polycarbonate. <i>Journal of Macromolecular Science - Physics</i> , 2010 , 49, 750-756	1.4	2
11	User's perception of indoor environment associated with energy performance in apartment complexes with different service life. <i>Energy and Buildings</i> , 2015 , 98, 106-112	7	1
10	Delineation of House Design Guidelines for Fall Prevention of Older People. <i>Journal of Population Ageing</i> , 2014 , 7, 185-215	1.2	1
9	Application of Smart Frames to tall buildings with dual systems and with building frame systems. <i>Indoor and Built Environment</i> , 2014 , 23, 161-170	1.8	1
8	Logistic Regression Based Multi-objective Optimization of IAQ Ventilation System Considering Healthy Risk and Ventilation Energy. <i>Energy Procedia</i> , 2014 , 62, 583-589	2.3	1
7	Residents and experts perspectives for evaluation of importance of Health Performance Indicators in social housings. <i>Indoor and Built Environment</i> , 2014 , 23, 150-160	1.8	1
6	Residents Evaluation of Apartment Community Spaces with Longitudinal Approach. <i>International Journal of Engineering and Technology</i> , 2015 , 7, 276-281	0	1
5	Experimental and Analytical Investigation of Column- Beam Joints with Smart Frame Based on Strain Compatibility. <i>International Journal of Engineering and Technology</i> , 2015 , 7, 317-320	0	1
4	A Field Survey of Thermal Comfort in Office Building with a Unitary Heat-Pump and Energy Recovery Ventilator. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 1003-1010	0.5	1
3	Cost and CO2 Analysis of Composite Precast Concrete Columns. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 995-1002	0.5	
2	Environmentally-Friendly Apartment Buildings Using a Sustainable Hybrid Precast Composite System. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 1071-1081	0.5	
1	Impact of Different Placements of Shading Device on Building Thermal Performance. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 1055-1059	0.5	