# Jae-Hyun Lim

## List of Publications by Citations

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|---|---|---|---|
| 25 papers | 789 citations | 9 h-index | 28 g-index |
| 30 ext. papers | 980 ext. citations | 2.4 avg, IF | 4.57 L-index |

| # | Paper | IF | Citations |
|---|-------|-----|-----------|
| 25 | Smart home energy management system using IEEE 802.15.4 and zigbee. *IEEE Transactions on Consumer Electronics*, **2010**, 56, 1403-1410 | 4.8 | 368 |
| 24 | Design and implementation of smart home energy management systems based on zigbee. *IEEE Transactions on Consumer Electronics*, **2010**, 56, 1417-1425 | 4.8 | 322 |
| 23 | A Development of a Lighting Control System Based on Context-Awareness for the Improvement of Learning Efficiency in Classroom. *Wireless Personal Communications*, **2016**, 86, 165-181 | 1.9 | 11 |
| 22 | Implementation of smartphone-based color temperature and wavelength control LED lighting system. *Cluster Computing*, **2016**, 19, 949-966 | 2.1 | 10 |
| 21 | Multi-objective context-adaptive natural lighting system. *Energy and Buildings*, **2017**, 144, 61-73 | 7 | 9 |
| 20 | Development of a UV Index Sensor-Based Portable Measurement Device with the EUVB Ratio of Natural Light. *Sensors*, **2019**, 19, | 3.8 | 9 |
| 19 | Development of local area alert system against particulate matters and ultraviolet rays based on open IoT platform with P2P. *Peer-to-Peer Networking and Applications*, **2018**, 11, 1240-1251 | 3.1 | 9 |
| 18 | Development of UVB LED Lighting System Based on UV Dose Calculation Algorithm to Meet Individual Daily UV Dose. *Applied Sciences (Switzerland)*, **2019**, 9, 2479 | 2.6 | 9 |
| 17 | LED context lighting system in residential areas. *Scientific World Journal, The*, **2014**, 2014, 851930 | 2.2 | 9 |
| 16 | Design and implementation of an integrated management system in a plant factory to save energy. *Cluster Computing*, **2014**, 17, 727-740 | 2.1 | 5 |
| 15 | Development of a natural light reproduction system for maintaining the circadian rhythm. *Indoor and Built Environment*, **2020**, 29, 132-144 | 1.8 | 5 |
| 14 | Designing Safe General LED Lighting that Provides the UVB Benefits of Sunlight. *Applied Sciences (Switzerland)*, **2019**, 9, 826 | 2.6 | 3 |
| 13 | Design and Implementation of the Natural Light Reproduction System Based on Context Awareness in WSN. *International Journal of Distributed Sensor Networks*, **2015**, 11, 781584 | 1.7 | 3 |
| 12 | Improvement of uniformity in cultivation environment and crop growth rate by hybrid control of air flow devices. *Journal of Central South University*, **2015**, 22, 4702-4708 | 2.1 | 2 |
| 11 | Minimization of temperature ranges between the top and bottom of an air flow controlling device through hybrid control in a plant factory. *Scientific World Journal, The*, **2014**, 2014, 801590 | 2.2 | 2 |
| 10 | Lighting Control System Based on the RTP of Smart Grid in WSN. *International Journal of Distributed Sensor Networks*, **2015**, 11, 571429 | 1.7 | 2 |
| 9 | Development of Portable Spectrometer supporting, Automatic Control of Integration Time. *Research Journal of Pharmacy and Technology*, **2018**, 11, 4619 | 1.7 | 2 |

# List of Publications

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|---|---|---|---|
| 8 | Design of Lighting Control System Considering Lighting Uniformity and Discomfort Glare for Indoor Space **2018**, | | 2 |
| 7 | Method of Calculating Short-Wavelength-Ratio-Based Color Temperature Supporting the Measurement of Real-Time Natural Light Characteristics through RGB Sensor. *Sensors*, **2020**, 20, | 3.8 | 1 |
| 6 | Development of safe UVB-LED special lighting to support daily recommended vitamin D synthesis: convergence approach of health and UVB-LED lighting. *Personal and Ubiquitous Computing*,1 | 2.1 | 1 |
| 5 | Natural Light Property-Based LED Lighting System to Maintain Human Circadian Rhythm. *IOP Conference Series: Materials Science and Engineering*, **2019**, 630, 012019 | 0.4 | 1 |
| 4 | Development and effect analysis of circadian rhythm-assisted LED lighting for reproducing short-wavelength ratio characteristics of natural light. *International Journal of Electrical Engineering and Education*,002072092098848 | 0.6 | 1 |
| 3 | Development and Effect Analysis of UVB-LED General Lighting to Support Vitamin D Synthesis. *Applied Sciences (Switzerland)*, **2020**, 10, 889 | 2.6 | 0 |
| 2 | Implementation of context prediction system based on event recurrence time. *Cluster Computing*, **2016**, 19, 1671-1682 | 2.1 | |
| 1 | Deep Neural Network Model for Calculating Ultraviolet Information with Seasonal Characteristics from Illuminance. *Lecture Notes in Electrical Engineering*, **2021**, 197-203 | 0.2 | |