Rizki A Mangkuto

List of Publications by Citations

33 papers	337 citations	10 h-index	18 g-index
39 ext. papers	405 ext. citations	3.9 avg, IF	4.21 L-index

#	Paper	IF	Citations
33	Design optimisation for window size, orientation, and wall reflectance with regard to various daylight metrics and lighting energy demand: A case study of buildings in the tropics. *Applied Energy*, **2016**, 164, 211-219	10.7	111
32	Optimisation of daylight admission based on modifications of light shelf design parameters. *Journal of Building Engineering*, **2018**, 18, 195-209	5.2	29
31	Heating and cooling energy demand in underground buildings: Potential for saving in various climates and functions. *Energy and Buildings*, **2014**, 71, 129-136	7	24
30	Determination of discomfort glare criteria for daylit space in Indonesia. *Solar Energy*, **2017**, 149, 151-163	6.8	22
29	Validation of DIALux 4.12 and DIALux evo 4.1 against the Analytical Test Cases of CIE 171:2006. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2016**, 12, 139-150	3.5	19
28	Determination of appropriate metrics for indicating indoor daylight availability and lighting energy demand using genetic algorithm. *Solar Energy*, **2018**, 170, 1074-1086	6.8	17
27	Design optimisation of internal shading device in multiple scenarios: Case study in Bandung, Indonesia. *Journal of Building Engineering*, **2019**, 24, 100745	5.2	12
26	Lighting performance and electrical energy consumption of a virtual window prototype. *Applied Energy*, **2014**, 135, 261-273	10.7	11
25	Prediction of Daylight Availability in a Large Hall with Multiple Facades Using Computer Simulation and Subjective Perception. *Procedia Engineering*, **2017**, 170, 313-319		10
24	Revisiting the national standard of daylighting in Indonesia: A study of five daylit spaces in Bandung. *Solar Energy*, **2016**, 126, 276-290	6.8	10
23	Research note: The accuracy of the mean spherical semi-cubic illuminance approach for determining scalar illuminance. *Lighting Research and Technology*, **2020**, 52, 151-158	2	10
22	A comparison of three approaches for determining scalar illuminance from cubic illuminance data. *Lighting Research and Technology*, **2019**, 51, 625-641	2	9
21	Visual Comfort Assessment Using High Dynamic Range Images under Daylight Condition in the Main Library Building of Institut Teknologi Bandung. *Procedia Engineering*, **2017**, 170, 234-239		8
20	Assessment of pitch floodlighting and glare condition in the Main Stadium of Gelora Bung Karno, Indonesia. *Measurement: Journal of the International Measurement Confederation*, **2018**, 117, 186-199	4.6	8
19	Simulation of virtual natural lighting solutions with a simplified view. *Lighting Research and Technology*, **2014**, 46, 198-218	2	7
18	The effects of illuminance, colour temperature, and colour rendering of various existing light-emitting diode lamps on subjective preference and performance in Indonesia. *Journal of Building Engineering*, **2018**, 19, 334-341	5.2	7
17	Uncertainty Analysis of Cylindrical Illuminance Approximation. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2020**, 16, 267-278	3.5	5

List of Publications

16	Radiation modeling of a photo-reactor using a backward ray-tracing method: an insight into indoor photocatalytic oxidation. *Environmental Science and Pollution Research*, **2014**, 21, 11142-54	5.1	3
15	Comparison between lighting performance of a virtual natural lighting solutions prototype and a real window based on computer simulation. *Frontiers of Architectural Research*, **2014**, 3, 398-412	2.3	3
14	The Impact of Courtyard and Street Canyon Surroundings on Global Illuminance and Estimated UV Index in the Tropics. *Journal of Daylighting*, **2020**, 7, 167-185	1.6	2
13	Error and Uncertainty Analyses of Reference and Sample Reflectances Measured with Substitution Integrating Spheres. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2020**, 1-14	3.5	2
12	Verification tests of a mirror box type artificial sky without and with building scale model. *Frontiers of Architectural Research*, **2018**, 7, 151-166	2.3	2
11	Design Optimisation of Fixed and Adaptive Shading Devices on Four Fa□de Orientations of a High-Rise Office Building in the Tropics. *Buildings*, **2022**, 12, 25	3.2	2
10	Modelling and simulation of virtual natural lighting solutions with complex views. *Building Simulation*, **2014**, 7, 563-578	3.9	1
9	Mitigation of even harmonics in the Fourier components of vertical illuminance around a reference point. *Lighting Research and Technology*, **2020**, 52, 675-691	2	1
8	Spectral reflectance and chromaticity differences of various colors of interior finishing material samples under tunable LED lamps. *Journal of Building Engineering*, **2021**, 44, 103280	5.2	0
7	Theoretical Impact of Building Fa□de Thickness on Daylight Metrics and Lighting Energy Demand in Buildings: A Case Study of the Tropics. *Buildings*, **2021**, 11, 656	3.2	0
6	Photometric and Colorimetric Measurements of Luminaires Using Goniometer and spectrophotometer in a Dark Chamber. *Procedia Engineering*, **2017**, 170, 226-233		
5	Parallax errors in cubic illuminance measurement. *Lighting Research and Technology*, **2020**, 52, 915-936	2	
4	Optimisation of luminance-based metrics for lighting in an open-plan dental examination room considering psycho-physiological response of dentists. *Optical Review*, **2019**, 26, 162-178	0.9	
3	On Illumination Vector Quantities Due to Area Light Sources: Comparison of Two Calculation Approaches. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-18	3.5	
2	Design optimisation of mean room surface exitance and total corneal illuminance using Monte Carlo simulation. *Building Simulation*,1	3.9	
1	Computation of the greenery-sky-view factor in daylit buildings. *Architectural Engineering and Design Management*,1-20	1.2	