Siwei Lou

List of Publications by Year
in descending order

27 papers	437 citations	840585 11 h-index	713332 21 g-index
27 all docs	27 docs citations	27 times ranked	371 citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of diffuse solar irradiance using machine learning and multivariable regression. Applied Energy, 2016, 181, 367-374.	5.1	81
2	Estimation of hourly global solar radiation using Multivariate Adaptive Regression Spline (MARS) â€" A case study of Hong Kong. Energy, 2019, 186, 115857.	4.5	56
3	Review of solar irradiance and daylight illuminance modeling and sky classification. Renewable Energy, 2018, 126, 445-453.	4.3	47
4	A study on occupant behaviour related to air-conditioning usage in residential buildings. Energy and Buildings, 2019, 203, 109446.	3.1	40
5	CIE Standard Sky classification by accessible climatic indices. Renewable Energy, 2017, 113, 347-356.	4.3	29
6	Assessing Hydrological Effects of Bioretention Cells for Urban Stormwater Runoff in Response to Climatic Changes. Water (Switzerland), 2019, 11, 997.	1.2	26
7	Estimation of obstructed vertical solar irradiation under the 15 CIE Standard Skies. Building and Environment, 2016, 103, 123-133.	3.0	21
8	A review of calculating procedures on daylight factor based metrics under various CIE Standard Skies and obstructed environments. Building and Environment, 2017, 112, 29-44.	3.0	21
9	Change of climate data over 37 years in Hong Kong and the implications on the simulation-based building energy evaluations. Energy and Buildings, 2020, 222, 110062.	3.1	16
10	Determining solar irradiance on inclined planes from classified CIE (International Commission on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	4.5	15
11	Identifying overcast, partly cloudy and clear skies by illuminance fluctuations. Renewable Energy, 2019, 138, 198-211.	4.3	11
12	Multi-objective building design optimization considering the effects of long-term climate change. Journal of Building Engineering, 2021, 44, 102904.	1.6	10
13	Estimation of irregular obstructed vertical sky components under various CIE skies. Energy Procedia, 2019, 158, 309-314.	1.8	8
14	A study of the skylight coverage ratio for air-conditioned atriumsin the hot and humid regions. International Journal of Low-Carbon Technologies, 2021, 16, 946-955.	1.2	8
15	Life-cycle analysis of photovoltaic systems in Hong Kong. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	7
16	Impact of climate change on outdoor design conditions and implications to peak loads. Building Simulation, 2022, 15, 2051-2065.	3.0	7
17	A novel method for fast sky conditions identification from global solar radiation measurements. Renewable Energy, 2020, 161, 77-90.	4.3	6
18	Optimizing the beam and sky diffuse radiation calculations under random obstructions of urban environments. Building and Environment, 2021, 196, 107806.	3.0	4

#	Article	IF	Citations
19	Simple correlations between point daylight factor, average daylight factor and vertical daylight factor under all sky conditions and building design implications. Indoor and Built Environment, 2022, 31, 1700-1714.	1.5	4
20	A study of overcast, partly cloudy and clear skies by global illuminance and its variation features. IOP Conference Series: Materials Science and Engineering, 2019, 556, 012015.	0.3	3
21	Tilted Photovoltaic Energy Outputs in Outdoor Environments. Sustainability, 2019, 11, 6052.	1.6	3
22	Solar energy and daylight on tilt planes under CIE standard skies. Energy Reports, 2020, 6, 895-905.	2.5	3
23	Radiance of the circumsolar and background parts of skydome for buildings under random obstructions. Energy and Buildings, 2021, 236, 110796.	3.1	3
24	Predicting diffuse solar irradiance on obstructed building façades under irregular skyline patterns for various ISO/CIE standard skies. Journal of Building Engineering, 2021, 40, 102370.	1.6	3
25	An all-sky luminance and radiance distribution model for built environment studies. Renewable Energy, 2022, 190, 822-835.	4.3	3
26	Parametric optimization procedure for efficient window design of educational buildings in the Pearl River Delta of China. International Journal of Low-Carbon Technologies, 2022, 17, 394-410.	1.2	2
27	A design approach for event-driven optimization in complex air conditioning systems. , 2017, , .		0