Conceptual design metrics for daylighting

DOI: 10.1177/1477153511423076
Lighting Research and Technology, 2012, 44, 277-290.

#	Paper	IF	Citations
40	Paradigm in Sustainability and Environmental Design: Lighting Utilization Contributing to Surplus-Energy Office Buildings. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2012**, 9, 25-45	3.5	7
39	Fuzzy logic model to classify effectiveness of daylighting in an office with a movable blind system. *Building and Environment*, **2013**, 69, 22-34	6.5	17
38	Evaluation of user interaction with daylighting simulation in a tangible user interface. *Automation in Construction*, **2013**, 36, 117-127	9.6	10
37	Metrics of circadian lighting for clinical investigations. *Lighting Research and Technology*, **2014**, 46, 637-649	2	5
36	Importance of building orientation in determining daylighting quality in student dorm rooms: Physical and simulated daylighting parameters values compared to subjective survey results. *Energy and Buildings*, **2014**, 77, 158-170	7	23
35	Requirements of Integrated Design Teams While Evaluating Advanced Energy Retrofit Design Options in Immersive Virtual Environments. *Buildings*, **2015**, 5, 1302-1320	3.2	7
34	Daylighting in older people's housing: Barriers to compliance with current UK guidance. *Lighting Research and Technology*, **2015**, 47, 976-992	2	5
33	Luminance-Based Measures of Contour Distinctness of 3D Objects as a Component of Light Modeling. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2015**, 11, 31-45	3.5	4
32	A comparison of scale-model photometry and computer simulation in day-lit spaces using a normalized daylight performance index. *Energy and Buildings*, **2015**, 89, 76-86	7	7
31	Unweaving the human response in daylighting design. *Building and Environment*, **2015**, 91, 101-117	6.5	49
30	Assessing daylight performance in atrium buildings by using Climate Based Daylight Modeling. *Solar Energy*, **2015**, 119, 553-560	6.8	43
29	The Review of the Selected Challenges for an Incorporation of Daylight Assessment Methods into Urban Planning in Poland. *Procedia Engineering*, **2016**, 161, 2191-2197		9
28	Window design in architecture: Analysis of energy savings for lighting and visual comfort in residential spaces. *Applied Energy*, **2016**, 168, 493-506	10.7	72
27	Analysis of circadian stimulus allowed by daylighting in hospital rooms. *Lighting Research and Technology*, **2017**, 49, 49-61	2	36
26	Climate-Based Daylight Modeling (CBDM) for an atrium: An experimentally validated novel daylight performance. *Solar Energy*, **2017**, 158, 559-571	6.8	9
25	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	6.5	15
24	Comparative study on energy savings due to daylight and artificial lighting integration for different glazing materials. **2017**,		

23	A Review of Daylighting Strategies in Schools: State of the Art and Expected Future Trends. *Buildings*, **2017**, 7, 41	3.2	19
22	Architectural lighting design: A research review over 50 years. *Lighting Research and Technology*, **2018**, 50, 80-97	2	14
21	Energy efficiency and lighting design in courtyards and atriums: A predictive method for daylight factors. *Applied Energy*, **2018**, 211, 1216-1228	10.7	21
20	New Daylighting Metrics. **2018**,		1
19	Daylight Spectrum Index: A New Metric to Assess the Affinity of Light Sources with Daylighting. *Energies*, **2018**, 11, 2545	3.1	11
18	Daylighting design for healthy environments: Analysis of educational spaces for optimal circadian stimulus. *Solar Energy*, **2019**, 193, 584-596	6.8	20
17	Minimum Daylight Autonomy: A New Concept to Link Daylight Dynamic Metrics with Daylight Factors. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2019**, 15, 251-269	3.5	9
16	Impact of daylight saving time on lighting energy consumption and on the biological clock for occupants in office buildings. *Solar Energy*, **2020**, 211, 1347-1364	6.8	14
15	Daylighting Analysis and Simulation Tools in Architectural Design:Review of Tools and Compatibility with Architectural CAD Platforms. *KIEAE Journal*, **2021**, 21, 13-22	0.2	0
14	Biophilic photobiological adaptive envelopes for sub-Arctic buildings: Exploring impacts of window sizes and shading panels color, reflectance, and configuration. *Solar Energy*, **2021**, 220, 802-827	6.8	5
13	Indoor lighting design for healthier workplaces: natural and electric light assessment for suitable circadian stimulus. *Optics Express*, **2021**, 29, 29899-29917	3.3	5
12	Partial Daylight Autonomy (DAp): A New Lighting Dynamic Metric to Optimize the Design of Windows for Seasonal Use Spaces. *Applied Sciences (Switzerland)*, **2021**, 11, 8228	2.6	3
11	Analysis of Photopic and Melanopic Lighting in Teaching Environments. *Buildings*, **2021**, 11, 439	3.2	1
10	Analysis of Circadian Stimulus and Visual Comfort Provided by Window Design in Architecture. *International Journal of Engineering and Technology*, **2017**, 9, 198-204	0	5
9	Lighting: Daylighting. **2014**, 1115-1121		
8	Estimation of Energy Saving in Educational Building from Day lighting to Improve the Visual Comfort. *Mehran University Research Journal of Engineering and Technology*, **2019**, 38, 1077-1086	0.6	
7	Achieving wind comfort through window design in residential buildings in cold climates, a case study in Tabriz city. *International Journal of Low-Carbon Technologies*, **2021**, 16, 502-517	2.8	2
6	Solar energy density as a benchmark to improve daylight availability and energy performance in buildings: A single metric for a single-objective optimization. *Solar Energy*, **2022**, 234, 304-318	6.8	0

5	A Review of Active Day Lighting System in Commercial Buildings with the Application of Optical Fiber. **2023**, 731-752	
4	Validation of lighting parametric workflow tools of Ladybug and Solemma using CIE test cases. **2023**, 64, 105608	0
3	A review of research on the impact of the classroom physical environment on schoolchildren's health. **2022**, 105430	0
2	Continuous Overcast Daylight Autonomy (DAo.con): A New Dynamic Metric for Sensor-Less Lighting Smart Controls. 1-25	0
1	CircaLight, a new circadian light assessment tool for Grasshopper environment: Development and reliability testing. **2023**, 71, 106527	0