

Marilyne Andersen

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.

58
papers

1,286
citations

24
h-index

34
g-index

61
ext. papers

1,536
ext. citations

4.7
avg, IF

5.3
L-index

#	Paper	IF	Citations
58	A framework for predicting the non-visual effects of daylight [Part I: photobiology- based model. <i>Lighting Research and Technology</i> , 2012 , 44, 37-53	2	90
57	Adequacy of Immersive Virtual Reality for the Perception of Daylit Spaces: Comparison of Real and Virtual Environments. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2019 , 15, 203-226	3.4	59
56	A human-centric approach to assess daylight in buildings for non-visual health potential, visual interest and gaze behavior. <i>Building and Environment</i> , 2017 , 113, 5-21	6.5	50
55	Preliminary Method for Prospective Analysis of the Circadian Efficacy of (Day)Light with Applications to Healthcare Architecture. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2008 , 5, 1-26	3.4	49
54	Bi-directional transmission properties of Venetian blinds: experimental assessment compared to ray-tracing calculations. <i>Solar Energy</i> , 2005 , 78, 187-198	6.7	47
53	Unweaving the human response in daylighting design. <i>Building and Environment</i> , 2015 , 91, 101-117	6.5	48
52	Review and critical analysis of early-design phase evaluation metrics for the solar potential of neighborhood designs. <i>Building and Environment</i> , 2015 , 92, 679-691	6.5	44
51	Goniophotometry and assessment of bidirectional photometric properties of complex fenestration systems. <i>Energy and Buildings</i> , 2006 , 38, 836-848	6.9	43
50	Experimental validation of simulation methods for bi-directional transmission properties at the daylighting performance level. <i>Energy and Buildings</i> , 2006 , 38, 878-889	6.9	42
49	Building energy certification versus user satisfaction with the indoor environment: Findings from a multi-site post-occupancy evaluation (POE) in Switzerland. <i>Building and Environment</i> , 2019 , 150, 60-74	6.5	41
48	Comparison between ray-tracing simulations and bi-directional transmission measurements on prismatic glazing. <i>Solar Energy</i> , 2003 , 74, 157-173	6.7	41
47	Daylight affects human thermal perception. <i>Scientific Reports</i> , 2019 , 9, 13690	4.7	38
46	Comparing daylighting performance assessment of buildings in scale models and test modules. <i>Solar Energy</i> , 2005 , 79, 168-182	6.7	38
45	Subjective and physiological responses to façade and sunlight pattern geometry in virtual reality. <i>Building and Environment</i> , 2019 , 150, 144-155	6.5	37
44	An intuitive daylighting performance analysis and optimization approach. <i>Building Research and Information</i> , 2008 , 36, 593-607	4.3	36
43	Modelling Non-visual Effects of daylighting in a residential environment. <i>Building and Environment</i> , 2013 , 70, 138-149	6.5	34
42	A generative facade design method based on daylighting performance goals. <i>Journal of Building Performance Simulation</i> , 2012 , 5, 141-154	2.8	33

41	Measuring the dynamics of contrast & daylight variability in architecture: A proof-of-concept methodology. <i>Building and Environment</i> , 2014 , 81, 320-333	6.5	31
40	Graphical Representation of Climate-Based Daylight Performance to Support Architectural Design. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2008 , 5, 39-61	3.4	29
39	Unified framework to evaluate non-visual spectral effectiveness of light for human health. <i>Lighting Research and Technology</i> , 2017 , 49, 673-696	2	29
38	Combined effects of daylight transmitted through coloured glazing and indoor temperature on thermal responses and overall comfort. <i>Building and Environment</i> , 2018 , 144, 583-597	6.5	27
37	An interactive expert system for daylighting design exploration. <i>Building and Environment</i> , 2011 , 46, 2351-2364	6.5	27
36	Interactive expert support for early stage full-year daylighting design: A user's perspective on Lightsolve. <i>Automation in Construction</i> , 2013 , 35, 338-352	9.4	25
35	A framework for predicting the non-visual effects of daylight [Part II: The simulation model. <i>Lighting Research and Technology</i> , 2014 , 46, 388-406	2	25
34	What is the 'spectral diet' of humans?. <i>Current Opinion in Behavioral Sciences</i> , 2019 , 30, 80-86	3.8	23
33	Interactive selection of optimal fenestration materials for schematic architectural daylighting design. <i>Automation in Construction</i> , 2008 , 17, 809-823	9.4	22
32	Occupants behaviour in energy simulation tools: lessons from a field monitoring campaign regarding lighting and shading control. <i>Journal of Building Performance Simulation</i> , 2015 , 8, 338-358	2.8	21
31	Experimental assessment of bi-directional transmission distribution functions using digital imaging techniques. <i>Energy and Buildings</i> , 2001 , 33, 417-431	6.9	20
30	Development and test application of the UrbanSOLve decision-support prototype for early-stage neighborhood design. <i>Building and Environment</i> , 2018 , 137, 58-72	6.5	21
29	An integrative approach for embodied energy: Towards an LCA -based data-driven design method. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 88, 123-132	16	19
28	Comprehensive annual daylight design through a goal-based approach. <i>Building Research and Information</i> , 2012 , 40, 154-173	4.3	18
27	A toolkit for multi-scale mapping of the solar energy-generation potential of buildings in urban environments under uncertainty. <i>Solar Energy</i> , 2018 , 173, 861-874	6.7	17
26	3D model discretization in assessing urban solar potential: the effect of grid spacing on predicted solar irradiation. <i>Solar Energy</i> , 2018 , 176, 334-349	6.7	17
25	Contrast measures for predicting perceptual effects of daylight in architectural renderings. <i>Lighting Research and Technology</i> , 2017 , 49, 882-903	2	17
24	Predictive models for assessing the passive solar and daylight potential of neighborhood designs: A comparative proof-of-concept study. <i>Building and Environment</i> , 2017 , 116, 1-16	6.5	17

23	Influence of indoor temperature and daylight illuminance on visual perception. <i>Lighting Research and Technology</i> , 2020 , 52, 350-370	2	14
22	Design of a time-efficient video-goniophotometer combining bidirectional functions assessment for transmission and reflection. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 88, 97-118	6.3	14
21	Light distribution through advanced fenestration systems. <i>Building Research and Information</i> , 2002 , 30, 264-281	4.3	10
20	Window Size Effects on Subjective Impressions of Daylit Spaces: Indoor Studies at High Latitudes Using Virtual Reality. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 242-264	3.4	9
19	Temperature-Color Interaction: Subjective Indoor Environmental Perception and Physiological Responses in Virtual Reality. <i>Human Factors</i> , 2021 , 63, 474-502	3.7	8
18	Validation of the performance of a new bidirectional video-goniophotometer. <i>Lighting Research and Technology</i> , 2006 , 38, 295-311	2	8
17	A daylighting knowledge base for performance-driven facade design exploration. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2011 , 8, 93-110	3.4	6
16	Strategic environmental urban planning - A contextual approach for defining performance goals and informing decision-making. <i>Building and Environment</i> , 2020 , 168, 106448	6.5	5
15	Inclusion of the specular component in the assessment of bidirectional distribution functions based on digital imaging. <i>Solar Energy</i> , 2005 , 79, 159-167	6.7	5
14	Matrix-based analysis of digital images. <i>Optics and Lasers in Engineering</i> , 2005 , 43, 419-435	4.4	5
13	3D-MODELING OF VEGETATION FROM LIDAR POINT CLOUDS AND ASSESSMENT OF ITS IMPACT ON FAÇADE SOLAR IRRADIATION. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, XLII-2/W2</i> , 67-70	1.3	5
12	Effect of Indoor Temperature and Glazing with Saturated Color on Visual Perception of Daylight. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 183-204	3.4	4
11	Regional Differences in the Perception of Daylit Scenes across Europe Using Virtual Reality. Part I: Effects of Window Size. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 1-22	3.4	4
10	Generalization of the Direct Sky Component Calculation to Openings of Arbitrary Tilt Angle. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2005 , 1, 39-55	3.4	4
9	COGNITIVE PERFORMANCE EVALUATION UNDER CONTROLLED DAYLIGHT LEVELS AT DIFFERENT INDOOR TEMPERATURES 2019 ,		2
8	Detecting trends and further development potential of contemporary façade design for workspaces. <i>Architectural Engineering and Design Management</i> , 2019 , 15, 267-281	1.2	1
7	Shaping light to influence occupants' experience of space: a kinetic shading system with composite materials. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012162	0.2	1
6	The influence of façade and space design on building occupants' indoor experience. <i>Journal of Building Engineering</i> , 2021 , 103663	5.1	1

5	Evaluating the suitability of regression-based emulators of building performance in practice: a test suite. <i>Journal of Building Performance Simulation</i> ,1-19	2.8	o
4	Regional Differences in the Perception of Daylit Scenes across Europe Using Virtual Reality. Part II: Effects of Façade and Daylight Pattern Geometry. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> ,1-25	3.4	o
3	Measurement in the Age of Information. <i>Information (Switzerland)</i> , 2022 , 13, 111	2.5	o
2	Towards a wearable sensor for spectrally-resolved personal light monitoring. <i>Journal of Physics: Conference Series</i> , 2021 , 2042, 012120	0.2	o
1	Research Context. <i>SpringerBriefs in Computer Science</i> , 2013 , 9-22	0.3	