

# Eleanor S Lee

## 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.

59  
papers

2,032  
citations

25  
h-index

44  
g-index

60  
ext. papers

2,255  
ext. citations

5.9  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
59	Daylight metrics and energy savings. <i>Lighting Research and Technology</i> , <b>2009</b> , 41, 261-283	2	173
58	Application issues for large-area electrochromic windows in commercial buildings. <i>Solar Energy Materials and Solar Cells</i> , <b>2002</b> , 71, 465-491	6.3	121
57	Thermal and daylighting performance of an automated venetian blind and lighting system in a full-scale private office. <i>Energy and Buildings</i> , <b>1998</b> , 29, 47-63	6.9	116
56	Subject responses to electrochromic windows. <i>Energy and Buildings</i> , <b>2006</b> , 38, 758-779	6.9	93
55	United States energy and CO2 savings potential from deployment of near-infrared electrochromic window glazings. <i>Building and Environment</i> , <b>2015</b> , 89, 107-117	6.5	89
54	Energy and visual comfort performance of electrochromic windows with overhangs. <i>Building and Environment</i> , <b>2007</b> , 42, 2439-2449	6.5	89
53	Examination of the technical potential of near-infrared switching thermochromic windows for commercial building applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 123, 65-80	6.3	87
52	A validation of the Radiance three-phase simulation method for modelling annual daylight performance of optically complex fenestration systems. <i>Journal of Building Performance Simulation</i> , <b>2013</b> , 6, 24-37	2.8	84
51	Lighting energy savings potential of split-pane electrochromic windows controlled for daylighting with visual comfort. <i>Energy and Buildings</i> , <b>2013</b> , 61, 8-20	6.9	79
50	Office worker response to an automated Venetian blind and electric lighting system: a pilot study. <i>Energy and Buildings</i> , <b>1998</b> , 28, 205-218	6.9	77
49	Regional performance targets for transparent near-infrared switching electrochromic window glazings. <i>Building and Environment</i> , <b>2013</b> , 61, 160-168	6.5	75
48	The New York Times Headquarters daylighting mockup: Monitored performance of the daylighting control system. <i>Energy and Buildings</i> , <b>2006</b> , 38, 914-929	6.9	71
47	Simulating the Daylight Performance of Complex Fenestration Systems Using Bidirectional Scattering Distribution Functions within Radiance. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2011</b> , 7, 241-261	3.4	69
46	Daylighting control performance of a thin-film ceramic electrochromic window: Field study results. <i>Energy and Buildings</i> , <b>2006</b> , 38, 30-44	6.9	68
45	End user impacts of automated electrochromic windows in a pilot retrofit application. <i>Energy and Buildings</i> , <b>2012</b> , 47, 267-284	6.9	60
44	A validation of a ray-tracing tool used to generate bi-directional scattering distribution functions for complex fenestration systems. <i>Solar Energy</i> , <b>2013</b> , 98, 404-414	6.7	57
43	Study on the overall energy performance of a novel c-Si based semitransparent solar photovoltaic window. <i>Applied Energy</i> , <b>2019</b> , 242, 854-872	10.5	49

42	Balancing daylight, glare, and energy-efficiency goals: An evaluation of exterior coplanar shading systems using complex fenestration modeling tools. <i>Energy and Buildings</i> , <b>2016</b> , 112, 279-298	6.9	46
41	Advanced Optical Daylighting Systems: Light Shelves and Light Pipes. <i>Leukos</i> , <b>1997</b> , 26, 91-106		39
40	Monitored lighting energy savings from dimmable lighting controls in The New York Times Headquarters Building. <i>Energy and Buildings</i> , <b>2014</b> , 68, 498-514	6.9	38
39	U.S. energy savings potential from dynamic daylighting control glazings. <i>Energy and Buildings</i> , <b>2013</b> , 66, 415-423	6.9	37
38	An empirical study of a full-scale polymer thermochromic window and its implications on material science development objectives. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 116, 14-26	6.3	38
37	Modeling the direct sun component in buildings using matrix algebraic approaches: Methods and validation. <i>Solar Energy</i> , <b>2018</b> , 160, 380-395	6.7	36
36	The Effect of Venetian Blinds on Daylight Photoelectric Control Performance. <i>Leukos</i> , <b>1999</b> , 28, 3-23		29
35	Angular selective window systems: Assessment of technical potential for energy savings. <i>Energy and Buildings</i> , <b>2015</b> , 90, 188-206	6.9	25
34	Measured daylighting potential of a static optical louver system under real sun and sky conditions. <i>Building and Environment</i> , <b>2015</b> , 92, 347-359	6.5	24
33	Daylight performance of a microstructured prismatic window film in deep open plan offices. <i>Building and Environment</i> , <b>2017</b> , 113, 280-297	6.5	23
32	Low-cost networking for dynamic window systems. <i>Energy and Buildings</i> , <b>2004</b> , 36, 503-513	6.9	22
31	The energy-savings potential of electrochromic windows in the US commercial buildings sector		21
30	Performance of integrated systems of automated roller shade systems and daylight responsive dimming systems. <i>Building and Environment</i> , <b>2011</b> , 46, 747-757	6.5	19
29	Integrated control of dynamic facades and distributed energy resources for energy cost minimization in commercial buildings. <i>Solar Energy</i> , <b>2015</b> , 122, 1384-1397	6.7	16
28	Visual quality assessment of electrochromic and conventional glazings. <i>Solar Energy Materials and Solar Cells</i> , <b>1998</b> , 54, 157-164	6.3	15
27	Empirical Assessment of a Prismatic Daylight-Redirecting Window Film in a Full-Scale Office Testbed. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2014</b> , 10, 19-45	3.4	14
26	Visual Comfort Analysis of Innovative Interior and Exterior Shading Systems for Commercial Buildings using High Resolution Luminance Images. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2011</b> , 7, 167-188	3.4	14
25	An assessment of the load modifying potential of model predictive controlled dynamic facades within the California context. <i>Energy and Buildings</i> , <b>2020</b> , 210, 109762	6.9	15

24	Efficient modeling of optically-complex, non-coplanar exterior shading: Validation of matrix algebraic methods. <i>Energy and Buildings</i> , <b>2018</b> , 174, 464-483	6.9	12
23	Acceleration of the matrix multiplication of Radiance three phase daylighting simulations with parallel computing on heterogeneous hardware of personal computer. <i>Journal of Building Performance Simulation</i> , <b>2014</b> , 7, 152-163	2.8	10
22	Solar energy integration in buildings. <i>Applied Energy</i> , <b>2020</b> , 264, 114740	10.5	10
21	Developing a Dynamic Envelope/Lighting Control System with Field Measurements. <i>Leukos</i> , <b>1997</b> , 26, 146-164		10
20	Modeling specular transmission of complex fenestration systems with data-driven BSDFs. <i>Building and Environment</i> , <b>2021</b> , 196, 107774	6.5	6
19	Comparative study on the overall energy performance between photovoltaic and Low-E insulated glass units. <i>Solar Energy</i> , <b>2021</b> , 214, 443-456	6.7	6
18	Light-scattering properties of a woven shade-screen material used for daylighting and solar heat-gain control <b>2008</b> ,		5
17	Assessment of the Potential to Achieve very Low Energy Use in Public Buildings in China with Advanced Window and Shading Systems. <i>Buildings</i> , <b>2015</b> , 5, 668-699	3.1	4
16	A Preliminary Study on the Performance of Daylight Responsive Dimming Systems with Improved Closed-Loop Control Algorithm. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2011</b> , 8, 41-59	3.4	3
15	BSDF Generation Procedures for Daylighting Systems <b>2021</b> ,		3
14	A post-occupancy monitored evaluation of the dimmable lighting, automated shading, and underfloor air distribution system in The New York Times Building		2
13	Electrochromic Window Demonstration at the John E. Moss Federal Building, 650 Capitol Mall, Sacramento, California		2
12	Effects of Overhangs on the Performance of Electrochromic Windows. <i>Architectural Science Review</i> , <b>2006</b> , 49, 349-356	2.6	2
11	Analysis and evaluation of BSDF characterization of daylighting systems <b>2021</b> ,		2
10	Electrochromic Window Demonstration at the 911 Federal Building, 911 Northeast 11th Avenue, Portland, Oregon		2
9	Split-pane electrochromic window control based on an embedded photometric device with real-time daylighting computing. <i>Building and Environment</i> , <b>2019</b> , 161, 106229	6.5	1
8	Potential annual daylighting performance of a high-efficiency daylight redirecting slat system. <i>Building Simulation</i> , <b>2021</b> , 14, 495-510	3.8	1
7	Technology Assessments of High Performance Envelope with Optimized Lighting, Solar Control, and Daylighting		1

6	Advocating for view and daylight in buildings: Next steps. <i>Energy and Buildings</i> , <b>2022</b> , 112079	6.9	1
5	Integrating daylighting and lighting in practice: Lessons learned from international case studies <b>2021</b> ,		1
4	Field validation of data-driven BSDF and peak extraction models for light-scattering fabric shades. <i>Energy and Buildings</i> , <b>2022</b> , 262, 112002	6.9	
3	Daylight simulation workflows incorporating measured bidirectional scattering distribution functions. <i>Energy and Buildings</i> , <b>2022</b> , 259, 111890	6.9	
2	Evaluation of integrated daylighting and electric lighting design projects: Lessons learned from international case studies. <i>Energy and Buildings</i> , <b>2022</b> , 268, 112191	6.9	0
1	Laboratory testing of a high efficiency light redirection system. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2042, 012117	0.2	