Eleanor S Lee

List of Publications by Year in Descending Order

57 papers	2,063 citations	25 h-index	45 g-index
60 ext. papers	2,330 ext. citations	5.9 avg, IF	5.1 L-index

#	Paper	IF	Citations
57	Daylight simulation workflows incorporating measured bidirectional scattering distribution functions. *Energy and Buildings*, **2022**, 259, 111890	7	1
56	Advocating for view and daylight in buildings: Next steps. *Energy and Buildings*, **2022**, 112079	7	1
55	Field validation of data-driven BSDF and peak extraction models for light-scattering fabric shades. *Energy and Buildings*, **2022**, 262, 112002	7	0
54	Evaluation of integrated daylighting and electric lighting design projects: Lessons learned from international case studies. *Energy and Buildings*, **2022**, 268, 112191	7	0
53	Analysis and evaluation of BSDF characterization of daylighting systems **2021**,		2
52	Laboratory testing of a high efficiency light redirection system. *Journal of Physics: Conference Series* , **2021**, 2042, 012117	0.3	
51	Modeling specular transmission of complex fenestration systems with data-driven BSDFs. *Building and Environment*, **2021**, 196, 107774	6.5	7
50	Potential annual daylighting performance of a high-efficiency daylight redirecting slat system. *Building Simulation*, **2021**, 14, 495-510	3.9	1
49	BSDF Generation Procedures for Daylighting Systems **2021**,		4
48	Comparative study on the overall energy performance between photovoltaic and Low-E insulated glass units. *Solar Energy*, **2021**, 214, 443-456	6.8	6
47	Solar energy integration in buildings. *Applied Energy*, **2020**, 264, 114740	10.7	10
46	An assessment of the load modifying potential of model predictive controlled dynamic facades within the California context. *Energy and Buildings*, **2020**, 210, 109762	7	14
45	Study on the overall energy performance of a novel c-Si based semitransparent solar photovoltaic window. *Applied Energy*, **2019**, 242, 854-872	10.7	51
44	Split-pane electrochromic window control based on an embedded photometric device with real-time daylighting computing. *Building and Environment*, **2019**, 161, 106229	6.5	1
43	Modeling the direct sun component in buildings using matrix algebraic approaches: Methods and validation. *Solar Energy*, **2018**, 160, 380-395	6.8	38
42	Efficient modeling of optically-complex, non-coplanar exterior shading: Validation of matrix algebraic methods. *Energy and Buildings*, **2018**, 174, 464-483	7	13
41	Daylight performance of a microstructured prismatic window film in deep open plan offices. *Building and Environment*, **2017**, 113, 280-297	6.5	24

40	Balancing daylight, glare, and energy-efficiency goals: An evaluation of exterior coplanar shading systems using complex fenestration modeling tools. *Energy and Buildings*, **2016**, 112, 279-298	7	48
39	Measured daylighting potential of a static optical louver system under real sun and sky conditions. *Building and Environment*, **2015**, 92, 347-359	6.5	25
38	United States energy and CO2 savings potential from deployment of near-infrared electrochromic window glazings. *Building and Environment*, **2015**, 89, 107-117	6.5	97
37	Assessment of the Potential to Achieve very Low Energy Use in Public Buildings in China with Advanced Window and Shading Systems. *Buildings*, **2015**, 5, 668-699	3.2	4
36	Integrated control of dynamic facades and distributed energy resources for energy cost minimization in commercial buildings. *Solar Energy*, **2015**, 122, 1384-1397	6.8	15
35	Angular selective window systems: Assessment of technical potential for energy savings. *Energy and Buildings*, **2015**, 90, 188-206	7	27
34	Empirical Assessment of a Prismatic Daylight-Redirecting Window Film in a Full-Scale Office Testbed. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2014**, 10, 19-45	3.5	14
33	Examination of the technical potential of near-infrared switching thermochromic windows for commercial building applications. *Solar Energy Materials and Solar Cells*, **2014**, 123, 65-80	6.4	88
32	Monitored lighting energy savings from dimmable lighting controls in The New York Times Headquarters Building. *Energy and Buildings*, **2014**, 68, 498-514	7	39
31	Acceleration of the matrix multiplication of Radiance three phase daylighting simulations with parallel computing on heterogeneous hardware of personal computer. *Journal of Building Performance Simulation*, **2014**, 7, 152-163	2.8	10
30	U.S. energy savings potential from dynamic daylighting control glazings. *Energy and Buildings*, **2013**, 66, 415-423	7	39
29	A validation of a ray-tracing tool used to generate bi-directional scattering distribution functions for complex fenestration systems. *Solar Energy*, **2013**, 98, 404-414	6.8	58
28	Lighting energy savings potential of split-pane electrochromic windows controlled for daylighting with visual comfort. *Energy and Buildings*, **2013**, 61, 8-20	7	78
27	An empirical study of a full-scale polymer thermochromic window and its implications on material science development objectives. *Solar Energy Materials and Solar Cells*, **2013**, 116, 14-26	6.4	38
26	Regional performance targets for transparent near-infrared switching electrochromic window glazings. *Building and Environment*, **2013**, 61, 160-168	6.5	77
25	A validation of the Radiance three-phase simulation method for modelling annual daylight performance of optically complex fenestration systems. *Journal of Building Performance Simulation*, **2013**, 6, 24-37	2.8	85
24	End user impacts of automated electrochromic windows in a pilot retrofit application. *Energy and Buildings*, **2012**, 47, 267-284	7	61
23	Performance of integrated systems of automated roller shade systems and daylight responsive dimming systems. *Building and Environment*, **2011**, 46, 747-757	6.5	19

22	Visual Comfort Analysis of Innovative Interior and Exterior Shading Systems for Commercial Buildings using High Resolution Luminance Images. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2011**, 7, 167-188	3.5	14
21	Simulating the Daylight Performance of Complex Fenestration Systems Using Bidirectional Scattering Distribution Functions within Radiance. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2011**, 7, 241-261	3.5	69
20	A Preliminary Study on the Performance of Daylight Responsive Dimming Systems with Improved Closed-Loop Control Algorithm. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2011**, 8, 41-59	3.5	3
19	Daylight metrics and energy savings. *Lighting Research and Technology*, **2009**, 41, 261-283	2	179
18	Light-scattering properties of a woven shade-screen material used for daylighting and solar heat-gain control **2008**,		6
17	Energy and visual comfort performance of electrochromic windows with overhangs. *Building and Environment*, **2007**, 42, 2439-2449	6.5	92
16	Effects of Overhangs on the Performance of Electrochromic Windows. *Architectural Science Review*, **2006**, 49, 349-356	2.6	2
15	Daylighting control performance of a thin-film ceramic electrochromic window: Field study results. *Energy and Buildings*, **2006**, 38, 30-44	7	68
14	The New York Times Headquarters daylighting mockup: Monitored performance of the daylighting control system. *Energy and Buildings*, **2006**, 38, 914-929	7	72
13	Subject responses to electrochromic windows. *Energy and Buildings*, **2006**, 38, 758-779	7	94
12	Low-cost networking for dynamic window systems. *Energy and Buildings*, **2004**, 36, 503-513	7	22
11	Application issues for large-area electrochromic windows in commercial buildings. *Solar Energy Materials and Solar Cells*, **2002**, 71, 465-491	6.4	124
10	The Effect of Venetian Blinds on Daylight Photoelectric Control Performance. *Leukos*, **1999**, 28, 3-23		29
9	Office worker response to an automated Venetian blind and electric lighting system: a pilot study. *Energy and Buildings*, **1998**, 28, 205-218	7	80
8	Visual quality assessment of electrochromic and conventional glazings. *Solar Energy Materials and Solar Cells*, **1998**, 54, 157-164	6.4	15
7	Thermal and daylighting performance of an automated venetian blind and lighting system in a full-scale private office. *Energy and Buildings*, **1998**, 29, 47-63	7	119
6	Advanced Optical Daylighting Systems: Light Shelves and Light Pipes. *Leukos*, **1997**, 26, 91-106		40
5	Developing a Dynamic Envelope/Lighting Control System with Field Measurements. *Leukos*, **1997**, 26, 146-164		10

4	A post-occupancy monitored evaluation of the dimmable lighting, automated shading, and underfloor air distribution system in The New York Times Building	2
3	Electrochromic Window Demonstration at the John E. Moss Federal Building, 650 Capitol Mall, Sacramento, California	2
2	The energy-savings potential of electrochromic windows in the UScommercial buildings sector	22
1	Electrochromic Window Demonstration at the 911 Federal Building, 911 Northeast 11th Avenue, Portland, Oregon	2