Eleanor S Lee

List of Publications by Year
in descending order

52 papers	2,712 citations	201575 27 h-index	182361 51 g-index
60 all docs	60 docs citations	60 times ranked	1652 citing authors

#	Article	IF	Citations
1	Daylight metrics and energy savings. Lighting Research and Technology, 2009, 41, 261-283.	1.2	238
2	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.	3.1	145
3	Application issues for large-area electrochromic windows in commercial buildings. Solar Energy Materials and Solar Cells, 2002, 71, 465-491.	3.0	142
4	United States energy and CO2 savings potential from deployment of near-infrared electrochromic window glazings. Building and Environment, 2015, 89, 107-117.	3.0	124
5	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.	1.0	121
6	Subject responses to electrochromic windows. Energy and Buildings, 2006, 38, 758-779.	3.1	110
7	Energy and visual comfort performance of electrochromic windows with overhangs. Building and Environment, 2007, 42, 2439-2449.	3.0	110
8	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.	3.0	101
9	Office worker response to an automated Venetian blind and electric lighting system: a pilot study. Energy and Buildings, 1998, 28, 205-218.	3.1	100
10	Lighting energy savings potential of split-pane electrochromic windows controlled for daylighting with visual comfort. Energy and Buildings, 2013, 61, 8-20.	3.1	99
11	Study on the overall energy performance of a novel c-Si based semitransparent solar photovoltaic window. Applied Energy, 2019, 242, 854-872.	5.1	89
12	The New York Times Headquarters daylighting mockup: Monitored performance of the daylighting control system. Energy and Buildings, 2006, 38, 914-929.	3.1	86
13	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.	1.5	86
14	Regional performance targets for transparent near-infrared switching electrochromic window glazings. Building and Environment, 2013, 61, 160-168.	3.0	84
15	Daylighting control performance of a thin-film ceramic electrochromic window: Field study results. Energy and Buildings, 2006, 38, 30-44.	3.1	80
16	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.	2.9	76
17	End user impacts of automated electrochromic windows in a pilot retrofit application. Energy and Buildings, 2012, 47, 267-284.	3.1	74
18	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.	3.1	70

#	Article	IF	Citations
19	Advanced Optical Daylighting Systems: Light Shelves and Light Pipes. Leukos, 1997, 26, 91-106.	0.3	50
20	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.	3.0	50
21	Modeling the direct sun component in buildings using matrix algebraic approaches: Methods and validation. Solar Energy, 2018, 160, 380-395.	2.9	47
22	Monitored lighting energy savings from dimmable lighting controls in The New York Times Headquarters Building. Energy and Buildings, 2014, 68, 498-514.	3.1	46
23	U.S. energy savings potential from dynamic daylighting control glazings. Energy and Buildings, 2013, 66, 415-423.	3.1	45
24	The Effect of Venetian Blinds on Daylight Photoelectric Control Performance. Leukos, 1999, 28, 3-23.	0.3	37
25	Daylight performance of a microstructured prismatic window film in deep open plan offices. Building and Environment, 2017, 113, 280-297.	3.0	34
26	Angular selective window systems: Assessment of technical potential for energy savings. Energy and Buildings, 2015, 90, 188-206.	3.1	33
27	Measured daylighting potential of a static optical louver system under real sun and sky conditions. Building and Environment, 2015, 92, 347-359.	3.0	30
28	Low-cost networking for dynamic window systems. Energy and Buildings, 2004, 36, 503-513.	3.1	27
29	Advocating for view and daylight in buildings: Next steps. Energy and Buildings, 2022, 265, 112079.	3.1	27
30	Solar energy integration in buildings. Applied Energy, 2020, 264, 114740.	5.1	25
31	Performance of integrated systems of automated roller shade systems and daylight responsive dimming systems. Building and Environment, 2011, 46, 747-757.	3.0	23
32	Comparative study on the overall energy performance between photovoltaic and Low-E insulated glass units. Solar Energy, 2021, 214, 443-456.	2.9	23
33	Integrated control of dynamic facades and distributed energy resources for energy cost minimization in commercial buildings. Solar Energy, 2015, 122, 1384-1397.	2.9	22
34	An assessment of the load modifying potential of model predictive controlled dynamic facades within the California context. Energy and Buildings, 2020, 210, 109762.	3.1	22
35	Visual quality assessment of electrochromic and conventional glazings. Solar Energy Materials and Solar Cells, 1998, 54, 157-164.	3.0	18
36	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.	1.5	17

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37	Efficient modeling of optically-complex, non-coplanar exterior shading: Validation of matrix algebraic methods. Energy and Buildings, 2018, 174, 464-483.	3.1	17
38	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.	1.5	15
39	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.	1.0	15
40	Modeling specular transmission of complex fenestration systems with data-driven BSDFs. Building and Environment, 2021, 196, 107774.	3.0	14
41	Window View Quality: Why It Matters and What We Should Do. LEUKOS - Journal of Illuminating Engineering Society of North America, 2022, 18, 259-267.	1.5	14
42	Developing a Dynamic Envelope/Lighting Control System with Field Measurements. Leukos, 1997, 26, 146-164.	0.3	12
43	Evaluation of integrated daylighting and electric lighting design projects: Lessons learned from international case studies. Energy and Buildings, 2022, 268, 112191.	3.1	12
44	Daylight simulation workflows incorporating measured bidirectional scattering distribution functions. Energy and Buildings, 2022, 259, 111890.	3.1	9
45	Field validation of data-driven BSDF and peak extraction models for light-scattering fabric shades. Energy and Buildings, 2022, 262, 112002.	3.1	8
46	Potential annual daylighting performance of a high-efficiency daylight redirecting slat system. Building Simulation, 2021, 14, 495-510.	3.0	7
47	Light-scattering properties of a woven shade-screen material used for daylighting and solar heat-gain control. Proceedings of SPIE, 2008, , .	0.8	6
48	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.	1.4	6
49	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.	1.5	3
50	Effects of Overhangs on the Performance of Electrochromic Windows. Architectural Science Review, 2006, 49, 349-356.	1.1	2
51	Split-pane electrochromic window control based on an embedded photometric device with real-time daylighting computing. Building and Environment, 2019, 161, 106229.	3.0	2
52	Laboratory testing of a high efficiency light redirection system. Journal of Physics: Conference Series, 2021, 2042, 012117.	0.3	0