

Athanasios Tzempelikos

List of Publications by Citations

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Version: 2024-04-26

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54
papers

2,087
citations

25
h-index

45
g-index

58
ext. papers

2,473
ext. citations

5.6
avg, IF

5.67
L-index

#	Paper	IF	Citations
54	The impact of shading design and control on building cooling and lighting demand. <i>Solar Energy</i> , 2007 , 81, 369-382	6.8	348
53	Efficient venetian blind control strategies considering daylight utilization and glare protection. <i>Solar Energy</i> , 2013 , 98, 241-254	6.8	100
52	The effect of reflective coatings on building surface temperatures, indoor environment and energy consumption—An experimental study. <i>Energy and Buildings</i> , 2011 , 43, 573-580	7	99
51	Experimental and simulation analysis of daylight glare probability in offices with dynamic window shades. <i>Building and Environment</i> , 2015 , 87, 244-254	6.5	98
50	A methodology for simulation of daylight room illuminance distribution and light dimming for a room with a controlled shading device. <i>Solar Energy</i> , 2002 , 72, 271-281	6.8	93
49	Comparative control strategies for roller shades with respect to daylighting and energy performance. <i>Building and Environment</i> , 2013 , 67, 179-192	6.5	91
48	Daylighting and energy analysis of private offices with automated interior roller shades. <i>Solar Energy</i> , 2012 , 86, 681-704	6.8	88
47	Occupant interactions with shading and lighting systems using different control interfaces: A pilot field study. <i>Building and Environment</i> , 2016 , 97, 177-195	6.5	86
46	Sensitivity analysis on daylighting and energy performance of perimeter offices with automated shading. <i>Building and Environment</i> , 2013 , 59, 303-314	6.5	81
45	Indoor thermal environmental conditions near glazed facades with shading devices [Part I: Experiments and building thermal model. <i>Building and Environment</i> , 2010 , 45, 2506-2516	6.5	81
44	The impact of venetian blind geometry and tilt angle on view, direct light transmission and interior illuminance. <i>Solar Energy</i> , 2008 , 82, 1172-1191	6.8	71
43	Simulation of facade and envelope design options for a new institutional building. <i>Solar Energy</i> , 2007 , 81, 1088-1103	6.8	67
42	Indoor thermal environmental conditions near glazed facades with shading devices [Part II: Thermal comfort simulation and impact of glazing and shading properties. <i>Building and Environment</i> , 2010 , 45, 2517-2525	6.5	66
41	Daylight glare evaluation with the sun in the field of view through window shades. <i>Building and Environment</i> , 2017 , 113, 65-77	6.5	65
40	A Bayesian approach for probabilistic classification and inference of occupant thermal preferences in office buildings. <i>Building and Environment</i> , 2017 , 118, 323-343	6.5	64
39	Model-based shading and lighting controls considering visual comfort and energy use. <i>Solar Energy</i> , 2016 , 134, 416-428	6.8	56
38	A hybrid ray-tracing and radiosity method for calculating radiation transport and illuminance distribution in spaces with venetian blinds. <i>Solar Energy</i> , 2012 , 86, 3109-3124	6.8	42

37	A systematic method for selecting roller shade properties for glare protection. <i>Energy and Buildings</i> , 2015 , 92, 81-94	7	39
36	Inference of thermal preference profiles for personalized thermal environments with actual building occupants. <i>Building and Environment</i> , 2019 , 148, 714-729	6.5	39
35	View clarity index: A new metric to evaluate clarity of view through window shades. <i>Building and Environment</i> , 2015 , 90, 206-214	6.5	34
34	Comfort metrics for an integrated evaluation of buildings performance. <i>Energy and Buildings</i> , 2016 , 127, 411-424	7	34
33	Daylight-linked synchronized shading operation using simplified model-based control. <i>Energy and Buildings</i> , 2017 , 145, 200-212	7	31
32	Implementation of a self-tuned HVAC controller to satisfy occupant thermal preferences and optimize energy use. <i>Energy and Buildings</i> , 2019 , 194, 301-316	7	28
31	A personalized daylighting control approach to dynamically optimize visual satisfaction and lighting energy use. <i>Energy and Buildings</i> , 2019 , 193, 111-126	7	26
30	Advances on daylighting and visual comfort research. <i>Building and Environment</i> , 2017 , 113, 1-4	6.5	25
29	Comfort and energy performance analysis of different glazing systems coupled with three shading control strategies. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 545-558	1.8	20
28	The effect of lighting environment on task performance in buildings [A review]. <i>Energy and Buildings</i> , 2020 , 226, 110394	7	19
27	Estimating detailed optical properties of window shades from basic available data and modeling implications on daylighting and visual comfort. <i>Energy and Buildings</i> , 2016 , 126, 396-407	7	19
26	Review of modelling approaches for passive ceiling cooling systems. <i>Journal of Building Performance Simulation</i> , 2015 , 8, 145-172	2.8	18
25	Bayesian classification and inference of occupant visual preferences in daylit perimeter private offices. <i>Energy and Buildings</i> , 2018 , 166, 505-524	7	17
24	Energy savings potential of passive chilled beams vs air systems in various US climatic zones with different system configurations. <i>Energy and Buildings</i> , 2019 , 186, 244-260	7	16
23	Daylighting and Energy Analysis of Multi-sectional Facades. <i>Energy Procedia</i> , 2015 , 78, 189-194	2.3	14
22	Real-time daylight glare control using a low-cost, window-mounted HDRI sensor. <i>Building and Environment</i> , 2020 , 177, 106912	6.5	13
21	Daylighting performance evaluation of a bottom-up motorized roller shade. <i>Solar Energy</i> , 2010 , 84, 2120-2131	6.28	13
20	Inferring personalized visual satisfaction profiles in daylit offices from comparative preferences using a Bayesian approach. <i>Building and Environment</i> , 2018 , 138, 74-88	6.5	12

19	Temperature dependent thermoelectric properties of cuprous delafossite oxides. <i>Composites Part B: Engineering</i> , 2019 , 156, 108-112	10	12
18	Dynamic Commercial Façades versus Traditional Construction: Energy Performance and Comparative Analysis. <i>Journal of Energy Engineering - ASCE</i> , 2015 , 141, 04014041	1.7	11
17	Comparing performance of discomfort glare metrics in high and low adaptation levels. <i>Building and Environment</i> , 2021 , 206, 108335	6.5	11
16	A smart and less intrusive feedback request algorithm towards human-centered HVAC operation. <i>Building and Environment</i> , 2020 , 184, 107190	6.5	8
15	Experimental investigation and data-driven regression models for performance characterization of single and multiple passive chilled beam systems. <i>Energy and Buildings</i> , 2018 , 158, 1736-1750	7	7
14	A Holistic Approach for Improving Visual Environment in Private Offices. <i>Procedia Environmental Sciences</i> , 2017 , 38, 372-380		5
13	Development and Implementation of Lighting and Shading Control Algorithms in an Airport Building. <i>Journal of Architectural Engineering</i> , 2012 , 18, 242-250	1.5	5
12	Efficient learning of personalized visual preferences in daylight offices: An online elicitation framework. <i>Building and Environment</i> , 2020 , 181, 107013	6.5	3
11	A low-cost stereo-fisheye camera sensor for daylighting and glare control. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012157	0.3	3
10	Evaluation of view clarity through solar shading fabrics. <i>Building and Environment</i> , 2022 , 212, 108750	6.5	2
9	Integrating occupants' voluntary thermal preference responses into personalized thermal control in office buildings. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012138	0.3	2
8	Personalized visual satisfaction profiles from comparative preferences using Bayesian inference. <i>Energy Procedia</i> , 2017 , 122, 547-552	2.3	1
7	Analysis of Balance Between Modeling Accuracy and Computational Speed for a Hybrid Ray-Tracing and Radiosity Method Used in Lighting Simulation 2013 ,		1
6	Performance evaluation of non-intrusive luminance mapping towards human-centered daylighting control. <i>Building and Environment</i> , 2022 , 213, 108857	6.5	1
5	Thermal preference-based control studies: review and detailed classification. <i>Science and Technology for the Built Environment</i> , 2021 , 27, 1031-1039	1.8	1
4	Semi-automated luminance map re-projection via high dynamic range imaging and indoor space 3-D reconstruction. <i>Automation in Construction</i> , 2021 , 129, 103812	9.6	1
3	An integrated method and web tool to assess visual environment in spaces with window shades. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 470-482	1.8	0
2	Cool Roofs in the US: The Impact of Roof Reflectivity, Insulation and Attachment Method on Annual Energy Cost. <i>Energies</i> , 2021 , 14, 7656	3.1	0

- 1 An online interactive tool to assess visual environment in offices with roller shades. *Energy Procedia*, 2017, 122, 685-690 2.3