

Lars Oliver Grobe

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

227
citations

932766

10
h-index

1058022

14
g-index

21
all docs

21
docs citations

21
times ranked

162
citing authors

#	ARTICLE	IF	CITATIONS
1	Three approaches to optimize optical properties and size of a South-facing window for spatial Daylight Autonomy. <i>Building and Environment</i> , 2016, 102, 243-256.	3.0	34
2	Ray tracing study for non-imaging daylight collectors. <i>Solar Energy</i> , 2010, 84, 986-996.	2.9	29
3	Progressive photon mapping for daylight redirecting components. <i>Solar Energy</i> , 2015, 114, 327-336.	2.9	17
4	An out-of-core photon mapping approach to daylight coefficients. <i>Journal of Building Performance Simulation</i> , 2016, 9, 620-632.	1.0	17
5	Modeling specular transmission of complex fenestration systems with data-driven BSDFs. <i>Building and Environment</i> , 2021, 196, 107774.	3.0	14
6	Experimental validation of bidirectional reflection and transmission distribution measurements of specular and scattering materials. <i>Proceedings of SPIE</i> , 2010, , .	0.8	13
7	Accordance of Light Scattering from Design and De-Facto Variants of a Daylight Redirecting Component. <i>Buildings</i> , 2016, 6, 30.	1.4	13
8	Photon mapping in image-based visual comfort assessments with BSDF models of high resolution. <i>Journal of Building Performance Simulation</i> , 2019, 12, 745-758.	1.0	13
9	Photon-mapping in Climate-Based Daylight Modelling with High-resolution BSDFs. <i>Energy and Buildings</i> , 2019, 205, 109524.	3.1	12
10	Efficient Simulation for Visual Comfort Evaluations. <i>Energy and Buildings</i> , 2022, 267, 112141.	3.1	12
11	Characterization and data-driven modeling of a retro-reflective coating in Radiance. <i>Energy and Buildings</i> , 2018, 162, 121-133.	3.1	11
12	An Innovative Façade Element with Controlled Solar-Thermal Collector and Storage. <i>Sustainability</i> , 2020, 12, 5281.	1.6	9
13	Daylight simulation workflows incorporating measured bidirectional scattering distribution functions. <i>Energy and Buildings</i> , 2022, 259, 111890.	3.1	9
14	Computational Combination of the Optical Properties of Fenestration Layers at High Directional Resolution. <i>Buildings</i> , 2017, 7, 22.	1.4	5
15	Scale-Model And Simulation-Based Assessments For Design Alternatives Of Daylight Redirecting Systems In A Side-Lighting Educational Room. <i>Metu Journal of the Faculty of Architecture</i> , 0, , .	0.1	4
16	A hybrid data-driven BSDF model to predict light transmission through complex fenestration systems including high incident directions. <i>Journal of Facade Design and Engineering</i> , 2017, 4, 79-89.	0.1	3
17	Photon mapping to accelerate daylight simulation with high-resolution, data-driven fenestration models. <i>Journal of Physics: Conference Series</i> , 2019, 1343, 012154.	0.3	3
18	Irregular Light Scattering Properties of Fenestration for Comfortable and Energy-Efficient Buildings. <i>International Journal of Digital Innovation in the Built Environment</i> , 2021, 10, 1-16.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Data-Driven Modelling of Daylight Scattering by Roman Window Glass. Journal on Computing and Cultural Heritage, 2020, 13, 1-20.	1.2	1