

# Lars Oliver Grobe

## 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.

20  
papers

143  
citations

8  
h-index

11  
g-index

20  
ext. papers

174  
ext. citations

4.2  
avg. IF

3.76  
L-index

#	Paper	IF	Citations
20	Ray tracing study for non-imaging daylight collectors. <i>Solar Energy</i> , <b>2010</b> , 84, 986-996	6.8	21
19	Three approaches to optimize optical properties and size of a South-facing window for spatial Daylight Autonomy. <i>Building and Environment</i> , <b>2016</b> , 102, 243-256	6.5	21
18	Progressive photon mapping for daylight redirecting components. <i>Solar Energy</i> , <b>2015</b> , 114, 327-336	6.8	15
17	An out-of-core photon mapping approach to daylight coefficients. <i>Journal of Building Performance Simulation</i> , <b>2016</b> , 9, 620-632	2.8	11
16	Characterization and data-driven modeling of a retro-reflective coating in Radiance. <i>Energy and Buildings</i> , <b>2018</b> , 162, 121-133	7	10
15	Experimental validation of bidirectional reflection and transmission distribution measurements of specular and scattering materials <b>2010</b> ,		10
14	Accordance of Light Scattering from Design and De-Facto Variants of a Daylight Redirecting Component. <i>Buildings</i> , <b>2016</b> , 6, 30	3.2	10
13	Photon mapping in image-based visual comfort assessments with BSDF models of high resolution. <i>Journal of Building Performance Simulation</i> , <b>2019</b> , 12, 745-758	2.8	9
12	Photon-mapping in Climate-Based Daylight Modelling with High-resolution BSDFs. <i>Energy and Buildings</i> , <b>2019</b> , 205, 109524	7	8
11	Modeling specular transmission of complex fenestration systems with data-driven BSDFs. <i>Building and Environment</i> , <b>2021</b> , 196, 107774	6.5	7
10	An Innovative Façade Element with Controlled Solar-Thermal Collector and Storage. <i>Sustainability</i> , <b>2020</b> , 12, 5281	3.6	5
9	Computational Combination of the Optical Properties of Fenestration Layers at High Directional Resolution. <i>Buildings</i> , <b>2017</b> , 7, 22	3.2	4
8	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> ,	2	3
7	Photon mapping to accelerate daylight simulation with high-resolution, data-driven fenestration models. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012154	0.3	3
6	Analysis and evaluation of BSDF characterization of daylighting systems <b>2021</b> ,		2
5	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> , <b>2017</b> , 4, 79-89		1
4	Daylight simulation workflows incorporating measured bidirectional scattering distribution functions. <i>Energy and Buildings</i> , <b>2022</b> , 259, 111890	7	1

3	Data-Driven Modelling of Daylight Scattering by Roman Window Glass. <i>Journal on Computing and Cultural Heritage</i> , <b>2020</b> , 13, 1-20	1.8	1
2	Irregular Light Scattering Properties of Fenestration for Comfortable and Energy-Efficient Buildings. <i>International Journal of Digital Innovation in the Built Environment</i> , <b>2021</b> , 10, 1-16	0.2	1
1	Efficient Simulation for Visual Comfort Evaluations. <i>Energy and Buildings</i> , <b>2022</b> , 267, 112141	7	0