Lars Oliver Grobe

List of Publications by Year in Descending Order

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	Daylight simulation workflows incorporating measured bidirectional scattering distribution functions. *Energy and Buildings*, **2022**, 259, 111890	7	1
19	Efficient Simulation for Visual Comfort Evaluations. *Energy and Buildings*, **2022**, 267, 112141	7	0
18	Analysis and evaluation of BSDF characterization of daylighting systems **2021**,		2
17	Modeling specular transmission of complex fenestration systems with data-driven BSDFs. *Building and Environment*, **2021**, 196, 107774	6.5	7
16	Irregular Light Scattering Properties of Fenestration for Comfortable and Energy-Efficient Buildings. *International Journal of Digital Innovation in the Built Environment*, **2021**, 10, 1-16	0.2	1
15	Data-Driven Modelling of Daylight Scattering by Roman Window Glass. *Journal on Computing and Cultural Heritage*, **2020**, 13, 1-20	1.8	1
14	An Innovative Fa□de Element with Controlled Solar-Thermal Collector and Storage. *Sustainability*, **2020**, 12, 5281	3.6	5
13	Photon mapping in image-based visual comfort assessments with BSDF models of high resolution. *Journal of Building Performance Simulation*, **2019**, 12, 745-758	2.8	9
12	Photon-mapping in Climate-Based Daylight Modelling with High-resolution BSDFs. *Energy and Buildings*, **2019**, 205, 109524	7	8
11	Photon mapping to accelerate daylight simulation with high-resolution, data-driven fenestration models. *Journal of Physics: Conference Series*, **2019**, 1343, 012154	0.3	3
10	Characterization and data-driven modeling of a retro-reflective coating in Radiance. *Energy and Buildings*, **2018**, 162, 121-133	7	10
9	A hybrid data-driven BSDF model to□predict light transmission through complex fenestration systems including high incident directions. *Journal of Facade Design and Engineering*, **2017**, 4, 79-89		1
8	Computational Combination of the Optical Properties of Fenestration Layers at High Directional Resolution. *Buildings*, **2017**, 7, 22	3.2	4
7	An out-of-core photon mapping approach to daylight coefficients. *Journal of Building Performance Simulation*, **2016**, 9, 620-632	2.8	11
6	Accordance of Light Scattering from Design and De-Facto Variants of a Daylight Redirecting Component. *Buildings*, **2016**, 6, 30	3.2	10
5	Three approaches to optimize optical properties and size of a South-facing window for spatial Daylight Autonomy. *Building and Environment*, **2016**, 102, 243-256	6.5	21
4	Progressive photon mapping for daylight redirecting components. *Solar Energy*, **2015**, 114, 327-336	6.8	15

3	Experimental validation of bidirectional reflection and transmission distribution measurements of specular and scattering materials **2010**,		10
2	Ray tracing study for non-imaging daylight collectors. *Solar Energy*, **2010**, 84, 986-996	6.8	21
1	Scale-Model And Simulation-Based Assessments For Design Alternatives Of Daylight Redirecting Systems In A Side-Lighting Educational Room. *Metu Journal of the Faculty of Architecture*,	2	3