Jŕm̂e Henri Km̂pf

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.

42 papers	1,277 citations	20 h-index	35 g-index
44 ext. papers	1,509 ext. citations	5.3 avg, IF	5.09 L-index

#	Paper	IF	Citations
42	Outdoor human comfort and thermal stress: A comprehensive review on models and standards. *Urban Climate*, **2016**, 18, 33-57	6.8	163
41	Effects of urban compactness on solar energy potential. *Renewable Energy*, **2016**, 93, 469-482	8.1	100
40	Optimisation of building form for solar energy utilisation using constrained evolutionary algorithms. *Energy and Buildings*, **2010**, 42, 807-814	7	87
39	Fusing TensorFlow with building energy simulation for intelligent energy management in smart cities. *Sustainable Cities and Society*, **2019**, 45, 243-257	10.1	87
38	A simplified thermal model to support analysis of urban resource flows. *Energy and Buildings*, **2007**, 39, 445-453	7	83
37	Optimisation of buildings□solar irradiation availability. *Solar Energy*, **2010**, 84, 596-603	6.8	74
36	A hybrid CMA-ES and HDE optimisation algorithm with application to solar energy potential. *Applied Soft Computing Journal*, **2009**, 9, 738-745	7.5	57
35	A comparison of global optimization algorithms with standard benchmark functions and real-world applications using EnergyPlus. *Journal of Building Performance Simulation*, **2010**, 3, 103-120	2.8	55
34	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. *Applied Energy*, **2017**, 208, 1208-1221	10.7	51
33	Multi-scale modelling to evaluate building energy consumption at the neighbourhood scale. *PLoS ONE*, **2017**, 12, e0183437	3.7	49
32	An overview of simulation tools for predicting the mean radiant temperature in an outdoor space. *Energy Procedia*, **2017**, 122, 1111-1116	2.3	38
31	Passive house optimization for Portugal: Overheating evaluation and energy performance. *Energy and Buildings*, **2016**, 118, 181-196	7	37
30	Cooling potential of greening in the urban environment, a step further towards practice. *Sustainable Cities and Society*, **2018**, 38, 543-559	10.1	35
29	Thermal Comfort Maps to estimate the impact of urban greening on the outdoor human comfort. *Urban Forestry and Urban Greening*, **2018**, 35, 91-105	5.4	32
28	A solar-based sustainable urban design: The effects of city-scale street-canyon geometry on solar access in Geneva, Switzerland. *Applied Energy*, **2019**, 240, 173-190	10.7	30
27	Sky view factor as predictor of solar availability on building fa□ades. *Solar Energy*, **2018**, 170, 1026-1038	6.8	28
26	Urban and building multiscale co-simulation: case study implementations on two university campuses. *Journal of Building Performance Simulation*, **2018**, 11, 309-321	2.8	27

25	Comparison between monitored and simulated data using evolutionary algorithms: Reducing the performance gap in dynamic building simulation. *Journal of Building Engineering*, **2018**, 17, 96-106	5.2	26
24	Balancing comfort and energy consumption of a heat pump using batch reinforcement learning with fitted Q-iteration. *Energy Procedia*, **2017**, 122, 415-420	2.3	25
23	Ray tracing study for non-imaging daylight collectors. *Solar Energy*, **2010**, 84, 986-996	6.8	21
22	Building shape optimisation to reduce air-conditioning needs using constrained evolutionary algorithms. *Solar Energy*, **2015**, 118, 186-196	6.8	18
21	The EPFL Campus in Lausanne: New Energy Strategies for 2050. *Energy Procedia*, **2015**, 78, 3174-3179	2.3	18
20	Parametric study of URBAN morphology on building solar energy potential in Singapore context. *Urban Climate*, **2020**, 33, 100624	6.8	14
19	On-site performance of electrochromic glazings coupled to an anidolic daylighting system. *Solar Energy*, **2007**, 81, 1166-1179	6.8	13
18	Normalisation of Histogrammed List Mode Data. *IEEE Transactions on Nuclear Science*, **2008**, 55, 543-551	1.7	12
17	Design and validation of a compact embedded photometric device for real-time daylighting computing in office buildings. *Building and Environment*, **2019**, 148, 309-322	6.5	12
16	Designing and assessing solar energy neighborhoods from visual impact. *Sustainable Cities and Society*, **2021**, 71, 102959	10.1	12
15	Characterization of a quasi-real-time lighting computing system based on HDR imaging. *Energy Procedia*, **2017**, 122, 649-654	2.3	10
14	Investigating the importance of future climate typology on estimating the energy performance of buildings in the EPFL campus. *Energy Procedia*, **2017**, 122, 1087-1092	2.3	10
13	On the impact of the wind speed on the outdoor human comfort: a sensitivity analysis. *Energy Procedia*, **2017**, 122, 481-486	2.3	8
12	Automated "Eye-sight" Venetian blinds based on an embedded photometric device with real-time daylighting computing. *Applied Energy*, **2019**, 252, 113317	10.7	7
11	Annual Performance Assessment of Complex Fenestration Systems in Sunny Climates Using Advanced Computer Simulations. *Journal of Daylighting*, **2015**, 2, 32-43	1.6	7
10	Multi-criteria analysis for the integrated performance assessment of complex fenestration systems. *Building Research and Information*, **2017**, 45, 926-942	4.3	6
9	Evaluation of Urban-Scale Building Energy-Use Models and Tools—Application for the City of Fribourg, Switzerland. *Sustainability*, **2021**, 13, 1595	3.6	6
8	Monitoring and rendering of visual and photo-biological properties of daylight-redirecting systems. *Solar Energy*, **2016**, 129, 297-309	6.8	5

7	Understanding the performance gap: a machine learning approach on residential buildings in Turin, Italy. *Journal of Physics: Conference Series*, **2019**, 1343, 012042	0.3	5
6	Daylighting simulation for external Venetian blinds based on HDR sky luminance monitoring with matrix algebraic approach. *Energy Procedia*, **2019**, 158, 2677-2682	2.3	4
5	Performance assessment of the BTDF data compression based on wavelet transforms in daylighting simulation. *Solar Energy*, **2019**, 190, 329-336	6.8	2
4	Split-pane electrochromic window control based on an embedded photometric device with real-time daylighting computing. *Building and Environment*, **2019**, 161, 106229	6.5	1
3	Application of Urban Scale Energy Modelling and Multi-Objective Optimization Techniques for Building Energy Renovation at District Scale. *Sustainability*, **2021**, 13, 11554	3.6	1
2	Daylight regulated by automated external Venetian blinds based on HDR sky luminance mapping in winter. *Journal of Physics: Conference Series*, **2019**, 1343, 012158	0.3	
1	A smart luminaire in an office environment: impact on light distribution, user interactions and comfort. *Journal of Physics: Conference Series*, **2019**, 1343, 012164	0.3	