

Jrôme Henri Kämpf

List of Publications by Year in Descending Order

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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	Application of Urban Scale Energy Modelling and Multi-Objective Optimization Techniques for Building Energy Renovation at District Scale. <i>Sustainability</i> , 2021 , 13, 11554	3.6	1
41	Evaluation of Urban-Scale Building Energy-Use Models and Tools Application for the City of Fribourg, Switzerland. <i>Sustainability</i> , 2021 , 13, 1595	3.6	6
40	Designing and assessing solar energy neighborhoods from visual impact. <i>Sustainable Cities and Society</i> , 2021 , 71, 102959	10.1	12
39	Parametric study of URBAN morphology on building solar energy potential in Singapore context. <i>Urban Climate</i> , 2020 , 33, 100624	6.8	14
38	Performance assessment of the BTDF data compression based on wavelet transforms in daylighting simulation. <i>Solar Energy</i> , 2019 , 190, 329-336	6.8	2
37	Daylighting simulation for external Venetian blinds based on HDR sky luminance monitoring with matrix algebraic approach. <i>Energy Procedia</i> , 2019 , 158, 2677-2682	2.3	4
36	Automated Eye-sight Venetian blinds based on an embedded photometric device with real-time daylighting computing. <i>Applied Energy</i> , 2019 , 252, 113317	10.7	7
35	A solar-based sustainable urban design: The effects of city-scale street-canyon geometry on solar access in Geneva, Switzerland. <i>Applied Energy</i> , 2019 , 240, 173-190	10.7	30
34	Split-pane electrochromic window control based on an embedded photometric device with real-time daylighting computing. <i>Building and Environment</i> , 2019 , 161, 106229	6.5	1
33	Understanding the performance gap: a machine learning approach on residential buildings in Turin, Italy. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012042	0.3	5
32	Daylight regulated by automated external Venetian blinds based on HDR sky luminance mapping in winter. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012158	0.3	
31	A smart luminaire in an office environment: impact on light distribution, user interactions and comfort. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012164	0.3	
30	Fusing TensorFlow with building energy simulation for intelligent energy management in smart cities. <i>Sustainable Cities and Society</i> , 2019 , 45, 243-257	10.1	87
29	Design and validation of a compact embedded photometric device for real-time daylighting computing in office buildings. <i>Building and Environment</i> , 2019 , 148, 309-322	6.5	12
28	Comparison between monitored and simulated data using evolutionary algorithms: Reducing the performance gap in dynamic building simulation. <i>Journal of Building Engineering</i> , 2018 , 17, 96-106	5.2	26
27	Cooling potential of greening in the urban environment, a step further towards practice. <i>Sustainable Cities and Society</i> , 2018 , 38, 543-559	10.1	35
26	Sky view factor as predictor of solar availability on building façades. <i>Solar Energy</i> , 2018 , 170, 1026-1038	6.8	28

25	Thermal Comfort Maps to estimate the impact of urban greening on the outdoor human comfort. <i>Urban Forestry and Urban Greening</i> , 2018 , 35, 91-105	5.4	32
24	Urban and building multiscale co-simulation: case study implementations on two university campuses. <i>Journal of Building Performance Simulation</i> , 2018 , 11, 309-321	2.8	27
23	Multi-criteria analysis for the integrated performance assessment of complex fenestration systems. <i>Building Research and Information</i> , 2017 , 45, 926-942	4.3	6
22	An overview of simulation tools for predicting the mean radiant temperature in an outdoor space. <i>Energy Procedia</i> , 2017 , 122, 1111-1116	2.3	38
21	On the impact of the wind speed on the outdoor human comfort: a sensitivity analysis. <i>Energy Procedia</i> , 2017 , 122, 481-486	2.3	8
20	Characterization of a quasi-real-time lighting computing system based on HDR imaging. <i>Energy Procedia</i> , 2017 , 122, 649-654	2.3	10
19	Balancing comfort and energy consumption of a heat pump using batch reinforcement learning with fitted Q-iteration. <i>Energy Procedia</i> , 2017 , 122, 415-420	2.3	25
18	Investigating the importance of future climate typology on estimating the energy performance of buildings in the EPFL campus. <i>Energy Procedia</i> , 2017 , 122, 1087-1092	2.3	10
17	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. <i>Applied Energy</i> , 2017 , 208, 1208-1221	10.7	51
16	Multi-scale modelling to evaluate building energy consumption at the neighbourhood scale. <i>PLoS ONE</i> , 2017 , 12, e0183437	3.7	49
15	Effects of urban compactness on solar energy potential. <i>Renewable Energy</i> , 2016 , 93, 469-482	8.1	100
14	Monitoring and rendering of visual and photo-biological properties of daylight-redirecting systems. <i>Solar Energy</i> , 2016 , 129, 297-309	6.8	5
13	Passive house optimization for Portugal: Overheating evaluation and energy performance. <i>Energy and Buildings</i> , 2016 , 118, 181-196	7	37
12	Outdoor human comfort and thermal stress: A comprehensive review on models and standards. <i>Urban Climate</i> , 2016 , 18, 33-57	6.8	163
11	Building shape optimisation to reduce air-conditioning needs using constrained evolutionary algorithms. <i>Solar Energy</i> , 2015 , 118, 186-196	6.8	18
10	The EPFL Campus in Lausanne: New Energy Strategies for 2050. <i>Energy Procedia</i> , 2015 , 78, 3174-3179	2.3	18
9	Annual Performance Assessment of Complex Fenestration Systems in Sunny Climates Using Advanced Computer Simulations. <i>Journal of Daylighting</i> , 2015 , 2, 32-43	1.6	7
8	A comparison of global optimization algorithms with standard benchmark functions and real-world applications using EnergyPlus. <i>Journal of Building Performance Simulation</i> , 2010 , 3, 103-120	2.8	55

7	Ray tracing study for non-imaging daylight collectors. <i>Solar Energy</i> , 2010 , 84, 986-996	6.8	21
6	Optimisation of buildings solar irradiation availability. <i>Solar Energy</i> , 2010 , 84, 596-603	6.8	74
5	Optimisation of building form for solar energy utilisation using constrained evolutionary algorithms. <i>Energy and Buildings</i> , 2010 , 42, 807-814	7	87
4	A hybrid CMA-ES and HDE optimisation algorithm with application to solar energy potential. <i>Applied Soft Computing Journal</i> , 2009 , 9, 738-745	7.5	57
3	Normalisation of Histogrammed List Mode Data. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 543-551	1.7	12
2	On-site performance of electrochromic glazings coupled to an anidolic daylighting system. <i>Solar Energy</i> , 2007 , 81, 1166-1179	6.8	13
1	A simplified thermal model to support analysis of urban resource flows. <i>Energy and Buildings</i> , 2007 , 39, 445-453	7	83