

# JÃ©rÃ©me Henri KÃ©mpf

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4430081/publications.pdf>

Version: 2024-02-01

44  
papers

1,860  
citations

279487

23  
h-index

288905

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1773  
citing authors

#	ARTICLE	IF	CITATIONS
1	Outdoor human comfort and thermal stress: A comprehensive review on models and standards. Urban Climate, 2016, 18, 33-57.	2.4	245
2	Effects of urban compactness on solar energy potential. Renewable Energy, 2016, 93, 469-482.	4.3	156
3	Fusing TensorFlow with building energy simulation for intelligent energy management in smart cities. Sustainable Cities and Society, 2019, 45, 243-257.	5.1	138
4	A simplified thermal model to support analysis of urban resource flows. Energy and Buildings, 2007, 39, 445-453.	3.1	114
5	Optimisation of building form for solar energy utilisation using constrained evolutionary algorithms. Energy and Buildings, 2010, 42, 807-814.	3.1	106
6	Optimisation of buildings' solar irradiation availability. Solar Energy, 2010, 84, 596-603.	2.9	93
7	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. Applied Energy, 2017, 208, 1208-1221.	5.1	74
8	A hybrid CMA-ES and HDE optimisation algorithm with application to solar energy potential. Applied Soft Computing Journal, 2009, 9, 738-745.	4.1	68
9	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.	1.0	66
10	An overview of simulation tools for predicting the mean radiant temperature in an outdoor space. Energy Procedia, 2017, 122, 1111-1116.	1.8	66
11	Multi-scale modelling to evaluate building energy consumption at the neighbourhood scale. PLoS ONE, 2017, 12, e0183437.	1.1	63
12	Sky view factor as predictor of solar availability on building façades. Solar Energy, 2018, 170, 1026-1038.	2.9	54
13	Thermal Comfort Maps to estimate the impact of urban greening on the outdoor human comfort. Urban Forestry and Urban Greening, 2018, 35, 91-105.	2.3	51
14	Passive house optimization for Portugal: Overheating evaluation and energy performance. Energy and Buildings, 2016, 118, 181-196.	3.1	50
15	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.	5.1	49
16	Cooling potential of greening in the urban environment, a step further towards practice. Sustainable Cities and Society, 2018, 38, 543-559.	5.1	42
17	Urban and building multiscale co-simulation: case study implementations on two university campuses. Journal of Building Performance Simulation, 2018, 11, 309-321.	1.0	40
18	Parametric study of URBAN morphology on building solar energy potential in Singapore context. Urban Climate, 2020, 33, 100624.	2.4	40

#	ARTICLE	IF	CITATIONS
19	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.	1.6	38
20	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.	1.8	37
21	Designing and assessing solar energy neighborhoods from visual impact. <i>Sustainable Cities and Society</i> , 2021, 71, 102959.	5.1	33
22	Ray tracing study for non-imaging daylight collectors. <i>Solar Energy</i> , 2010, 84, 986-996.	2.9	29
23	Building shape optimisation to reduce air-conditioning needs using constrained evolutionary algorithms. <i>Solar Energy</i> , 2015, 118, 186-196.	2.9	28
24	The EPFL Campus in Lausanne: New Energy Strategies for 2050. <i>Energy Procedia</i> , 2015, 78, 3174-3179.	1.8	21
25	Evaluation of Urban-Scale Building Energy-Use Models and ToolsŒApplication for the City of Fribourg, Switzerland. <i>Sustainability</i> , 2021, 13, 1595.	1.6	17
26	On-site performance of electrochromic glazings coupled to an anidolic daylighting system. <i>Solar Energy</i> , 2007, 81, 1166-1179.	2.9	16
27	Normalisation of Histogrammed List Mode Data. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 543-551.	1.2	16
28	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.	3.0	14
29	Characterization of a quasi-real-time lighting computing system based on HDR imaging. <i>Energy Procedia</i> , 2017, 122, 649-654.	1.8	12
30	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.	1.8	12
31	On the impact of the wind speed on the outdoor human comfort: a sensitivity analysis. <i>Energy Procedia</i> , 2017, 122, 481-486.	1.8	11
32	Automated ŒEye-sightŒ™ Venetian blinds based on an embedded photometric device with real-time daylighting computing. <i>Applied Energy</i> , 2019, 252, 113317.	5.1	11
33	Annual Performance Assessment of Complex Fenestration Systems in Sunny Climates Using Advanced Computer Simulations. <i>Journal of Daylighting</i> , 2015, 2, 32-43.	0.5	9
34	Application of Urban Scale Energy Modelling and Multi-Objective Optimization Techniques for Building Energy Renovation at District Scale. <i>Sustainability</i> , 2021, 13, 11554.	1.6	9
35	Multi-criteria analysis for the integrated performance assessment of complex fenestration systems. <i>Building Research and Information</i> , 2017, 45, 926-942.	2.0	8
36	Monitoring and rendering of visual and photo-biological properties of daylight-redirecting systems. <i>Solar Energy</i> , 2016, 129, 297-309.	2.9	6

#	ARTICLE	IF	CITATIONS
37	Daylighting simulation for external Venetian blinds based on HDR sky luminance monitoring with matrix algebraic approach. Energy Procedia, 2019, 158, 2677-2682.	1.8	6
38	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
39	Performance assessment of the BTDF data compression based on wavelet transforms in daylighting simulation. Solar Energy, 2019, 190, 329-336.	2.9	3
40	Split-pane electrochromic window control based on an embedded photometric device with real-time daylighting computing. Building and Environment, 2019, 161, 106229.	3.0	2
41	Lighting simulation for External Venetian blinds based on BTDF and HDR sky luminance monitoring. , 2018, , .		1
42	A Survey Study of Occupantsâ€™ Visual Satisfaction on an Automated Venetian Blind Based on Sky Luminance Monitoring and Lighting Simulation. , 2019, , .		1
43	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	0
44	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	0