

# 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	Evaluation of Urban-Scale Building Energy-Use Models and Toolsâ€™Application for the City of Fribourg, Switzerland. Sustainability, 2021, 13, 1595.	1.6	17
2	Designing and assessing solar energy neighborhoods from visual impact. Sustainable Cities and Society, 2021, 71, 102959.	5.1	33
3	Application of Urban Scale Energy Modelling and Multi-Objective Optimization Techniques for Building Energy Renovation at District Scale. Sustainability, 2021, 13, 11554.	1.6	9
4	Parametric study of URBAN morphology on building solar energy potential in Singapore context. Urban Climate, 2020, 33, 100624.	2.4	40
5	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
6	Performance assessment of the BTDF data compression based on wavelet transforms in daylighting simulation. Solar Energy, 2019, 190, 329-336.	2.9	3
7	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
8	Automated â€™Eye-sightâ€™ Venetian blinds based on an embedded photometric device with real-time daylighting computing. Applied Energy, 2019, 252, 113317.	5.1	11
9	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
10	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
11	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
12	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
13	Fusing TensorFlow with building energy simulation for intelligent energy management in smart cities. Sustainable Cities and Society, 2019, 45, 243-257.	5.1	138
14	Design and validation of a compact embedded photometric device for real-time daylighting computing in office buildings. Building and Environment, 2019, 148, 309-322.	3.0	14
15	A Survey Study of Occupantsâ€™ Visual Satisfaction on an Automated Venetian Blind Based on Sky Luminance Monitoring and Lighting Simulation. , 2019, , .		1
16	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.	1.6	38
17	Cooling potential of greening in the urban environment, a step further towards practice. Sustainable Cities and Society, 2018, 38, 543-559.	5.1	42
18	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

#	ARTICLE	IF	CITATIONS
19	Sky view factor as predictor of solar availability on building façades. <i>Solar Energy</i> , 2018, 170, 1026-1038.	2.9	54
20	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.	2.3	51
21	Lighting simulation for External Venetian blinds based on BTDF and HDR sky luminance monitoring. , 2018, , .		1
22	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
23	An overview of simulation tools for predicting the mean radiant temperature in an outdoor space. <i>Energy Procedia</i> , 2017, 122, 1111-1116.	1.8	66
24	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
25	Characterization of a quasi-real-time lighting computing system based on HDR imaging. <i>Energy Procedia</i> , 2017, 122, 649-654.	1.8	12
26	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
27	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
28	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. <i>Applied Energy</i> , 2017, 208, 1208-1221.	5.1	74
29	Multi-scale modelling to evaluate building energy consumption at the neighbourhood scale. <i>PLoS ONE</i> , 2017, 12, e0183437.	1.1	63
30	Outdoor human comfort and thermal stress: A comprehensive review on models and standards. <i>Urban Climate</i> , 2016, 18, 33-57.	2.4	245
31	Effects of urban compactness on solar energy potential. <i>Renewable Energy</i> , 2016, 93, 469-482.	4.3	156
32	Monitoring and rendering of visual and photo-biological properties of daylight-redirecting systems. <i>Solar Energy</i> , 2016, 129, 297-309.	2.9	6
33	Passive house optimization for Portugal: Overheating evaluation and energy performance. <i>Energy and Buildings</i> , 2016, 118, 181-196.	3.1	50
34	The EPFL Campus in Lausanne: New Energy Strategies for 2050. <i>Energy Procedia</i> , 2015, 78, 3174-3179.	1.8	21
35	Building shape optimisation to reduce air-conditioning needs using constrained evolutionary algorithms. <i>Solar Energy</i> , 2015, 118, 186-196.	2.9	28
36	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

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37	Optimisation of buildingsâ€™ solar irradiation availability. Solar Energy, 2010, 84, 596-603.	2.9	93
38	Optimisation of building form for solar energy utilisation using constrained evolutionary algorithms. Energy and Buildings, 2010, 42, 807-814.	3.1	106
39	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
40	Ray tracing study for non-imaging daylight collectors. Solar Energy, 2010, 84, 986-996.	2.9	29
41	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
42	Normalisation of Histogrammed List Mode Data. IEEE Transactions on Nuclear Science, 2008, 55, 543-551.	1.2	16
43	On-site performance of electrochromic glazings coupled to an anidolic daylighting system. Solar Energy, 2007, 81, 1166-1179.	2.9	16
44	A simplified thermal model to support analysis of urban resource flows. Energy and Buildings, 2007, 39, 445-453.	3.1	114