

Ondrej Sikula

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.

32
papers

191
citations

9
h-index

12
g-index

36
ext. papers

251
ext. citations

2.6
avg, IF

3.92
L-index

#	Paper	IF	Citations
32	Enhancing the efficiency of a steam jet ejector chiller for chilled ceiling. <i>Applied Thermal Engineering</i> , 2022 , 211, 118512	5.8	0
31	Adapting the construction of radiant heating and cooling systems for building retrofit. <i>Energy and Buildings</i> , 2022 , 112228	7	1
30	A comparative study on the applicability of six radiant floor, wall, and ceiling heating systems based on thermal performance analysis. <i>Journal of Building Engineering</i> , 2021 , 36, 102133	5.2	9
29	Thermal performance of a radiant wall heating and cooling system with pipes attached to thermally insulating bricks. <i>Energy and Buildings</i> , 2021 , 246, 111122	7	6
28	Review of water-based wall systems: Heating, cooling, and thermal barriers. <i>Energy and Buildings</i> , 2021 , 253, 111476	7	6
27	Numerical Study of Passive and Active Flow Separation Behavior over NACA 0015 Airfoil. <i>International Journal of Fluid Machinery and Systems</i> , 2020 , 13, 327-335	1.1	
26	Coupled transparent insulation system with low emissivity solar absorber: An experimentally validated building energy simulation study. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 511-523	1.8	4
25	An Evaluation of the Mathematical Models of Energy Piles. <i>Slovak Journal of Civil Engineering</i> , 2020 , 28, 44-48	0.9	
24	Experimental and numerical study on the thermal performance of polycarbonate panels. <i>Journal of Building Engineering</i> , 2020 , 32, 101715	5.2	2
23	Heat storage efficiency and effective thermal output: Indicators of thermal response and output of radiant heating and cooling systems. <i>Energy and Buildings</i> , 2020 , 229, 110524	7	18
22	The possibilities and limitations of using radiant wall cooling in new and retrofitted existing buildings. <i>Applied Thermal Engineering</i> , 2020 , 164, 114490	5.8	19
21	The possibilities of application of radiant wall cooling in existing buildings as a part of their retrofit. <i>E3S Web of Conferences</i> , 2019 , 111, 03008	0.5	1
20	Radiant wall cooling with pipes arranged in insulation panels attached to facades of existing buildings. <i>E3S Web of Conferences</i> , 2019 , 111, 03013	0.5	3
19	Experimental and numerical study of turbulent flow around a Fanwings profile. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 698-712	4.5	9
18	Circular Free Jets: CFD Simulations with Various Turbulence Models and Their Comparison with Theoretical Solutions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 471, 062045	0.4	1
17	Numerical study of cracking a medium elastic viscoplastique of polyacetal. <i>Mechanics and Mechanical Engineering</i> , 2019 , 23, 125-129	0.9	
16	Insulation panels for active control of heat transfer in walls operated as space heating or as a thermal barrier: Numerical simulations and experiments. <i>Energy and Buildings</i> , 2018 , 158, 135-146	7	21

15	Influence of heating elements dynamics on energy savings. <i>International Review of Applied Sciences and Engineering</i> , 2018 , 9, 169-173	0.3	1
14	Hybrid Roof Panels for Night Cooling and Solar Energy Utilization in Buildings. <i>Energy Procedia</i> , 2015 , 74, 177-183	2.3	8
13	Assessment of condensation of water vapor in the mixing chamber by CFD method. <i>EPJ Web of Conferences</i> , 2015 , 92, 02112	0.3	3
12	Numerical Simulation of Subsoil Freezing Risk under the Freezer Room. <i>Applied Mechanics and Materials</i> , 2015 , 797, 225-230	0.3	3
11	Theoretical Evaluation of Night Sky Cooling in the Czech Republic. <i>Energy Procedia</i> , 2014 , 48, 645-653	2.3	21
10	Transient Numerical Simulation of Linear Thermal Transmittance in Software CalA. <i>Advanced Materials Research</i> , 2014 , 1041, 277-280	0.5	9
9	Thermal analysis of light pipes for insulated flat roofs. <i>Energy and Buildings</i> , 2014 , 85, 436-444	7	18
8	The Effect of Shielding Barriers on Solar Air Collector Gains. <i>Energy Procedia</i> , 2013 , 36, 1070-1075	2.3	1
7	Thermal CFD Analysis of Tubular Light Guides. <i>Energies</i> , 2013 , 6, 6304-6321	3.1	8
6	2D Model of Capillary Transport of Water in Aerated Concrete. <i>Advanced Materials Research</i> , 2013 , 649, 287-290	0.5	2
5	Maximization of Solar Gains of an Air Collector by Simulations. <i>Applied Mechanics and Materials</i> , 2013 , 284-287, 483-487	0.3	1
4	Analysis of Local Moisture Increase of Timber Constructions on Ice Arena Roof. <i>Advanced Materials Research</i> , 2013 , 649, 291-294	0.5	3
3	Simulation of Deposition the Corrosion Waste in a Water Distribution System. <i>EPJ Web of Conferences</i> , 2013 , 45, 01133	0.3	
2	Thermal Bonds of Buildings Structures in Energy Conservation – Case Study. <i>AASRI Procedia</i> , 2012 , 2, 14-19		1
1	Numerical Simulation of the Effect of Heat Gains in the Heating Season. <i>Energy Procedia</i> , 2012 , 14, 906-913	2.3	12