

# Iván Hernández Pérez

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,055  
citations

394421

19  
h-index

434195

31  
g-index

50  
all docs

50  
docs citations

50  
times ranked

827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the effect of roof coatings materials on the building thermal temperature variations based on an artificial intelligence. <i>Journal of Physics: Conference Series</i> , 2022, 2180, 012014.	0.4	0
2	Annual thermal evaluation of a ventilated roof under warm weather conditions of Mexico. <i>Energy</i> , 2022, 246, 123412.	8.8	5
3	Thermal evaluation of building roofs with conventional and reflective coatings. , 2021, , 247-273.		1
4	Review on methodological and normative advances in assessment and estimation of wind energy. <i>Energy and Environment</i> , 2021, 32, 25-61.	4.6	3
5	Influence of Traditional and Solar Reflective Coatings on the Heat Transfer of Building Roofs in Mexico. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3263.	2.5	8
6	Empirical model of hygrothermal behavior of masonry wall under different climatic conditions using a hot box. <i>Energy and Buildings</i> , 2021, 249, 111209.	6.7	6
7	Thermal performance of a solar façade system for building ventilation in the southeast of Mexico. <i>Renewable Energy</i> , 2020, 145, 294-307.	8.9	16
8	Test box experiment and simulations of a green-roof: Thermal and energy performance of a residential building standard for Mexico. <i>Energy and Buildings</i> , 2020, 209, 109709.	6.7	48
9	Thermal performance analysis of a roof with a PCM-layer under Mexican weather conditions. <i>Renewable Energy</i> , 2020, 149, 773-785.	8.9	40
10	Experimental study of an earth to air heat exchanger (EAHE) for warm humid climatic conditions. <i>Geothermics</i> , 2020, 84, 101741.	3.4	31
11	Parametric analysis of the thermal behavior of a single-channel solar chimney. <i>Solar Energy</i> , 2020, 209, 602-617.	6.1	23
12	Acceleration of the numerical solution for the radiative transfer equation using a modified relaxation factor. <i>Engineering Computations</i> , 2020, 37, 1823-1847.	1.4	3
13	Thermal behavior of a phase change material in a building roof with and without reflective coating in a warm humid zone. <i>Journal of Building Engineering</i> , 2020, 32, 101648.	3.4	23
14	Using Artificial Intelligence to Analyze the Thermal Behavior of Building Roofs. <i>Journal of Energy Engineering - ASCE</i> , 2020, 146, .	1.9	6
15	Thermal potential of a geothermal earth-to-air heat exchanger in six climatic conditions of México. <i>Mechanics and Industry</i> , 2020, 21, 308.	1.3	11
16	Coupling building energy simulation and computational fluid dynamics: An overview. <i>Journal of Building Physics</i> , 2020, 44, 137-180.	2.4	16
17	Numerical Study of the Distribution of Temperatures and Relative Humidity in a Ventilated Room Located in Warm Weather. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2020, 123, 571-602.	1.1	1
18	Test box experiment to assess the impact of waterproofing materials on the energy gain of building roofs in Mexico. <i>Energy</i> , 2019, 186, 115847.	8.8	8

#	ARTICLE	IF	CITATIONS
19	Solar chimneys with a phase change material for buildings: An overview using CFD and global energy balance. <i>Energy and Buildings</i> , 2019, 186, 384-404.	6.7	40
20	Thermal and Energy Evaluation of a Domestic Refrigerator under the Influence of the Thermal Load. <i>Energies</i> , 2019, 12, 400.	3.1	16
21	Multi-gene genetic programming for predicting the heat gain of flat naturally ventilated roof using data from outdoor environmental monitoring. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 138, 106-117.	5.0	17
22	Mathematical models of solar chimneys with a phase change material for ventilation of buildings: A review using global energy balance. <i>Energy</i> , 2019, 170, 683-708.	8.8	42
23	Ventilation potential of an absorber-partitioned air channel solar chimney for diurnal use under Mexican climate conditions. <i>Applied Thermal Engineering</i> , 2019, 149, 807-821.	6.0	43
24	Development of a solar calorimeter for the thermal evaluation of glazing samples. <i>Journal of Building Physics</i> , 2019, 42, 750-770.	2.4	2
25	Experimental study of convective heat transfer in a ventilated rectangular cavity. <i>Journal of Building Physics</i> , 2018, 42, 388-415.	2.4	7
26	Computational Fluid Dynamics for Thermal Evaluation of Earth-to-Air Heat Exchanger for Different Climates of Mexico. , 2018, , 33-51.		3
27	Evaluation of the CPU time for solving the radiative transfer equation with high-order resolution schemes applying the normalized weighting-factor method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 208, 45-63.	2.3	4
28	Numerical study of the optimum width of 2a diurnal double air-channel solar chimney. <i>Energy</i> , 2018, 147, 403-417.	8.8	37
29	Experimental thermal evaluation of building roofs with conventional and reflective coatings. <i>Energy and Buildings</i> , 2018, 158, 569-579.	6.7	56
30	Assessment of Resource and Forecast Modeling of Wind Speed through An Evolutionary Programming Approach for the North of Tehuantepec Isthmus (Cuahtemotzin, Mexico). <i>Energies</i> , 2018, 11, 3197.	3.1	6
31	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml203" display="inline" overflow="scroll" altimg="si3.gif" \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ - factor: A modified relaxation factor to accelerate the convergence rate of the radiative transfer equation with high-order resolution schemes using the Normalized Weighting-Factor method. <i>Computer Physics Communications</i> , 2018, 221, 72-80.	7.5	4
32	Reflective Materials for Cost-Effective Energy-Efficient Retrofitting of Roofs. , 2017, , 119-139.		3
33	Optical thickness effect on natural convection in a vertical channel containing a gray gas. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 510-519.	4.8	4
34	Thermal performance of a hollow block with/without insulating and reflective materials for roofing in Mexico. <i>Applied Thermal Engineering</i> , 2017, 123, 243-255.	6.0	18
35	Effect of irrigation on the experimental thermal performance of a green roof in a semi-warm climate in Mexico. <i>Energy and Buildings</i> , 2017, 154, 232-243.	6.7	33
36	Thermal evaluation of a Room coupled with a Double Glazing Window with/without a solar control film for Mexico. <i>Applied Thermal Engineering</i> , 2017, 110, 805-820.	6.0	42

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37	Numerical simulation of an instrument to determine the thermal conductivity of conductive solids. <i>Mechanics and Industry</i> , 2017, 18, 105.	1.3	0
38	Computational fluid dynamics for thermal evaluation of a room with a double glazing window with a solar control film. <i>Renewable Energy</i> , 2016, 94, 237-250.	8.9	19
39	Thermal energy storage and losses in a room-Trombe wall system located in Mexico. <i>Energy</i> , 2016, 109, 512-524.	8.8	52
40	Thermal performance of a double pane window with a solar control coating for warm climate of Mexico. <i>Applied Thermal Engineering</i> , 2016, 106, 257-265.	6.0	22
41	Computational fluid dynamics for modeling the turbulent natural convection in a double air-channel solar chimney system. <i>International Journal of Modern Physics C</i> , 2016, 27, 1650095.	1.7	11
42	Unsteady-RANS simulation of conjugate heat transfer in a cavity with a vertical semitransparent wall. <i>Computers and Fluids</i> , 2015, 117, 183-195.	2.5	7
43	Thermal performance of a double pane window using glazing available on the Mexican market. <i>Renewable Energy</i> , 2015, 81, 785-794.	8.9	31
44	Pseudo transient numerical study of an earth-to-air heat exchanger for different climates of México. <i>Energy and Buildings</i> , 2015, 99, 273-283.	6.7	31
45	Thermal Performance of a Concrete Cool Roof under Different Climatic Conditions of Mexico. <i>Energy Procedia</i> , 2014, 57, 1753-1762.	1.8	17
46	Numerical study of earth-to-air heat exchanger for three different climates. <i>Energy and Buildings</i> , 2014, 76, 238-248.	6.7	62
47	Numerical study of earth-to-air heat exchanger: The effect of thermal insulation. <i>Energy and Buildings</i> , 2014, 85, 356-361.	6.7	53
48	Thermal performance of reflective materials applied to exterior building components—A review. <i>Energy and Buildings</i> , 2014, 80, 81-105.	6.7	118