

Brahim Benhamou

List of Publications by Year in descending order

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papers

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citations

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all docs

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docs citations

57
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermomechanical characterization of a bio-composite building material: Mortar reinforced with date palm fibers mesh. <i>Construction and Building Materials</i> , 2017, 135, 241-250.	3.2	114
2	Experimental and numerical study of an earth-to-air heat exchanger for air cooling in a residential building in hot semi-arid climate. <i>Energy and Buildings</i> , 2016, 125, 109-121.	3.1	96
3	Experimental and theoretical study of a humidification-dehumidification water desalination system using solar energy. <i>Desalination</i> , 2004, 168, 151-159.	4.0	92
4	Moisture content influence on the thermal conductivity of insulating building materials made from date palm fibers mesh. <i>Construction and Building Materials</i> , 2017, 148, 811-823.	3.2	80
5	Laminar mixed convection of humid air in a vertical channel with evaporation or condensation at the wall. <i>International Journal of Thermal Sciences</i> , 2004, 43, 531-539.	2.6	51
6	Thermal performance assessment of passive techniques integrated into a residential building in semi-arid climate. <i>Energy and Buildings</i> , 2017, 143, 1-16.	3.1	44
7	Stability and thermal conductivity enhancement of aqueous nanofluid based on surfactant-modified TiO ₂ . <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 374-382.	1.3	34
8	Buoyancy effects on upward and downward laminar mixed convection heat and mass transfer in a vertical channel. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2007, 17, 333-353.	1.6	27
9	Thermal behavior and energy saving analysis of a flat with different energy efficiency measures in six climates. <i>Building Simulation</i> , 2018, 11, 1123-1144.	3.0	26
10	Experimental assessment of thermal performance of three passive cooling techniques for roofs in a semi-arid climate. <i>Energy and Buildings</i> , 2018, 164, 153-164.	3.1	23
11	ANALYSIS FOR THERMAL BEHAVIOR AND ENERGY SAVINGS OF A SEMI-DETACHED HOUSE WITH DIFFERENT INSULATION STRATEGIES IN A HOT SEMI-ARID CLIMATE. <i>Journal of Green Building</i> , 2017, 12, 78-106.	0.4	23
12	Effect of phase change material wall on natural convection heat transfer inside an air filled enclosure. <i>Applied Thermal Engineering</i> , 2017, 126, 305-314.	3.0	22
13	Energy Performances of a Passive Building in Marrakech: Parametric Study. <i>Energy Procedia</i> , 2013, 42, 624-632.	1.8	21
14	A numerical study of the longitudinal thermoconvective rolls in a mixed convection flow in a horizontal channel with a free surface. <i>International Journal of Heat and Fluid Flow</i> , 2013, 42, 265-277.	1.1	19
15	Thermal Characterization of a Tunisian Gypsum Plaster as Construction Material. <i>Energy Procedia</i> , 2013, 42, 680-688.	1.8	19
16	Preparation and characterization of nano-enhanced myristic acid using metal oxide nanoparticles for thermal energy storage. <i>International Journal of Energy Research</i> , 2019, 43, 8592.	2.2	19
17	Energy performance and economic study of a solar floor heating system for a Hammam. <i>Energy and Buildings</i> , 2017, 141, 247-261.	3.1	18
18	Flow reversal in combined laminar mixed convection heat and mass transfer with phase change in a vertical channel. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 711-721.	1.1	17

#	ARTICLE	IF	CITATIONS
19	Effect of air humidity at the entrance on heat and mass transfers in a humidifier intended for a desalination system. Applied Thermal Engineering, 2011, 31, 1906-1914.	3.0	12
20	Development of Alfa Fiber-Based Mortar with Improved Thermo-Mechanical Properties. Applied Sciences (Switzerland), 2020, 10, 8021.	1.3	12
21	Thermal performance of passive techniques integrated to a house and the concept of passive house in the six climates of Morocco. Science and Technology for the Built Environment, 2020, 26, 1490-1508.	0.8	12
22	<scp>PCM</scp> incorporation into a cavity wall as an insulator and phase shifter: Experimental investigations and numerical modeling. International Journal of Energy Research, 2021, 45, 16728-16740.	2.2	10
23	COMBINED BUOYANCY EFFECTS OF THERMAL AND MASS DIFFUSION ON LAMINAR CONVECTION IN A VERTICAL ISOTHERMAL CHANNEL. Computational Thermal Sciences, 2010, 2, 125-138.	0.5	10
24	Extensive Parametric Study of Cooling Performance of an Earth-to-Air Heat Exchanger in Hot Semi-Arid Climate. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	10
25	Linear stability analysis of Poiseuilleâ€“Marangoni flow in a horizontal infinite liquid film. International Communications in Heat and Mass Transfer, 2014, 54, 126-131.	2.9	8
26	Experimental investigation of the charge/discharge process for an organic PCM macroencapsulated in an aluminium rectangular cavity. E3S Web of Conferences, 2018, 32, 01004.	0.2	8
27	Effect of thermal insulation and ground coupling on thermal load of a modern house in Marrakech. , 2014, , .		6
28	Improving energy efficiency in buildings: Review and compiling. Materials Today: Proceedings, 2020, 27, 2999-3003.	0.9	6
29	Attempt Predicting Slab-on-Ground Temperature for Bioclimatic Buildings. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	6
30	Experimental investigation of a solar powered humidification-dehumidification desalination unit. , 0, 62, 1-10.		6
31	Energy efficiency in buildings: Thermophysical characterization of building materials. , 2013, , .		5
32	Multi-objective Optimization of the Thickness of the Thermal Insulation and the Windows Area of a House in Benguerir, Morocco. , 2021, , .		5
33	Cooling Performance of an Earth to Air Heat Exchanger in Hot Semi-arid Climate : Parametric study. , 2018, , .		4
34	Simultaneous Heat and Mass Transfer in Inclined Channel With Asymmetrical Conditions. , 2010, , .		3
35	COMBINED HEAT AND MASS TRANSFER WITH PHASE CHANGE IN A VERTICAL CHANNEL. Computational Thermal Sciences, 2010, 2, 299-310.	0.5	3
36	Assessment of the impact of construction materials on the buildingâ€™s thermal behaviour and indoor thermal comfort in a hot and semi-arid climate. Advances in Building Energy Research, 2022, 16, 711-735.	1.1	3

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37	Thermomechanical characterization of composite materials: Mortar reinforced by date palm fibers mesh from Marrakech. , 2015, , .		2
38	Thermal comfort analysis of a house retrofitted according to the Moroccan building energy code. , 2016, , .		2
39	Study of the design of an earth-to-air heat exchanger for low energy air cooling and heating of a school in desert climate. AIP Conference Proceedings, 2021, , .	0.3	2
40	Effect of Retrofit Scenarios on Energy Performance and Indoor Thermal Comfort of a Typical Single-Family House in Different Climates of Morocco. ASME Journal of Engineering for Sustainable Buildings and Cities, 2021, 2, .	0.6	2
41	Study on the performance of thermal energy of a classroom built with natural materials. Proceedings of Institution of Civil Engineers: Energy, 0, , 1-16.	0.5	2
42	Impact of an Earth-Air Heat Exchanger Combined With Nighttime Ventilation on Indoor Thermal Comfort of a Residential Building in Hot Semi-Arid Climate. Journal of Solar Energy Engineering, Transactions of the ASME, 2023, 145, .	1.1	2
43	RafriBAT: A project to introduce energy efficiency in buildings in Marrakech area by means of passive and low exergy air-conditioning systems. , 2013, , .		1
44	Thermophysical investigation of a TiO ₂ embedded phase change material. , 2015, , .		1
45	Discomfort analysis of a green house in Marrakech region. , 2015, , .		1
46	Comparison of shallow basement thermal performance for different regions of Morocco using a three-dimensional heat transfer analysis. Cogent Engineering, 2019, 6, .	1.1	1
47	Effect of Natural Ventilation on the Thermal Performance of a Residential Building in a Hot Semi-Arid Climate. , 2019, , .		1
48	Soil Thermal Inertia Effect on Shallow Basement Energy Performance in Different Morocco Climates. Journal of Thermal Science and Engineering Applications, 2020, 12, .	0.8	1
49	Effects of three passive techniques on thermal performance of a building in Marrakech region. , 2014, , .		0
50	Dynamic modeling of thermal behavior of a solar floor heating system for a HAMMAM in Marrakech. , 2015, , .		0
51	Prediction of High Impact Factors on Building's Thermal Loads in Semi-arid Climate. , 2017, , .		0
52	Numerical study of small-scale solar humidification-dehumidification desalination unit. , 2019, , .		0
53	Thermal Evaluation of Local Construction Materials under a Hot Semi-arid Climate of Marrakech. , 2019, , .		0
54	MARANGONI EFFECT ON THE LONGITUDINAL ROLLS OF A MIXED CONVECTION FLOW IN A HORIZONTAL OPEN CHANNEL , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Evaluation of the Thermal Performance of an Earth to Air Heat Exchanger Connected to a Single-Family House for Air Heating and Cooling Under European Climates. , 2021, , .		0
56	Estimation of Thermal Diffusivity from a Long-term Measurement of Sub-soil Temperature in Marrakech. , 2021, , .		0
57	Impact of Earth-To-Air Exchanger on Heating and Cooling Energy Needs of a Residential Building in Benguerir, Morocco. , 2021, , .		0