Hamed H Saber

List of Publications by Year
in descending order

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40	953	516710 16	454955 30
papers	citations	h-index	g-index

41	41	41	615
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Practical correlation for thermal resistance of 45Â° sloped-enclosed airspaces with upward heat flow for building applications. Journal of Building Physics, 2022, 45, 649-674.	2.4	5
2	Hygrothermal performance of cool roofs with reflective coating material subjected to hot, humid and dusty climate. Journal of Building Physics, 2022, 45, 457-481.	2.4	4
3	Thermal Resistance of 30Â° Sloped, Enclosed Airspaces Subjected to Upward Heat Flow. Sustainability, 2022, 14, 3260.	3.2	0
4	Developing a model for predicting optimum daily tilt angle of a PV solar system at different geometric, physical and dynamic parameters. Advances in Building Energy Research, 2021, 15, 179-198.	2.3	10
5	Investigating the Effect of Dust Accumulation on the Solar Reflectivity of Coating Materials for Cool Roof Applications. Energies, 2021, 14, 445.	3.1	10
6	Experimental characterization of reflective coating material for cool roofs in hot, humid and dusty climate. Energy and Buildings, 2021, 242, 110993.	6.7	24
7	Assessing the Energy, Indoor Air Quality, and Moisture Performance for a Three-Story Building Using an Integrated Model, Part Two: Integrating the Indoor Air Quality, Moisture, and Thermal Comfort. Energies, 2021, 14, 4915.	3.1	12
8	Assessing the Energy, Indoor Air Quality, and Moisture Performance for a Three-Story Building Using an Integrated Model, Part Three: Development of Integrated Model and Applications. Energies, 2021, 14, 5648.	3.1	5
9	Sustainable Self-Cooling Framework for Cooling Computer Chip Hotspots Using Thermoelectric Modules. Sustainability, 2021, 13, 12522.	3.2	2
10	Advanced Modeling of Enclosed Airspaces to Determine Thermal Resistance for Building Applications. Energies, 2021, 14, 7772.	3.1	5
11	Experimental investigation of using thermoelectric cooling for computer chips. Journal of King Saud University, Engineering Sciences, 2020, 32, 321-329.	2.0	8
12	Effective R-value of enclosed reflective space for different building applications. Journal of Building Physics, 2020, 43, 398-427.	2.4	14
13	Impact of reflective roofs on the overall energy savings of whole buildings. E3S Web of Conferences, 2020, 172, 25008.	0.5	2
14	3D Numerical Modeling for Assessing the Energy Performance of Single-Zone Buildings with and Without Phase Change Materials. , 2020, , 419-438.		2
15	Long-Term Energy and Moisture Performance of Reflective and Non-reflective Roofing Systems with and Without Phase Change Materials Under Kuwaiti Climates. , 2020, , 453-482.		3
16	Energy Performance of Cool Roofs Followed by Development of Practical Design Tool. Frontiers in Energy Research, 2019, 7, .	2.3	14
17	Hygrothermal Performance of Cool Roofs Subjected to Saudi Climates. Frontiers in Energy Research, 2019, 7, .	2.3	17
18	Performance optimization of cascaded and non-cascaded thermoelectric devices for cooling computer chips. Energy Conversion and Management, 2019, 191, 174-192.	9.2	48

#	Article	IF	Citations
19	Assessing the Energy and Indoor Air Quality Performance for a Three-Story Building Using an Integrated Model, Part One: The Need for Integration. Energies, 2019, 12, 4775.	3.1	17
20	Practical correlation for thermal resistance of low-sloped enclosed airspaces with downward heat flow for building applications. HVAC and R Research, 2014, 20, 92-112.	0.6	6
21	Practical correlation for thermal resistance of horizontal enclosed airspaces with downward heat flow for building applications. Journal of Building Physics, 2014, 37, 403-435.	2.4	11
22	Practical correlation for thermal resistance of 45Â° sloped enclosed airspaces with downward heat flow for building applications. Building and Environment, 2013, 65, 154-169.	6.9	9
23	Practical correlations for thermal resistance of horizontal enclosed airspaces with upward heat flow for building applications. Building and Environment, 2013, 61, 169-187.	6.9	12
24	Practical correlations for the thermal resistance of vertical enclosed airspaces for building applications. Building and Environment, 2013, 59, 379-396.	6.9	16
25	Thermal performance of wall assemblies with low emissivity. Journal of Building Physics, 2013, 36, 308-329.	2.4	15
26	3D heat and air transport model for predicting the thermal resistances of insulated wall assemblies. Journal of Building Performance Simulation, 2012, 5, 75-91.	2.0	30
27	Thermal response of basement wall systems with low-emissivity material and furred airspace. Journal of Building Physics, 2012, 35, 353-371.	2.4	26
28	Numerical modeling and experimental investigations of thermal performance of reflective insulations. Journal of Building Physics, 2012, 36, 163-177.	2.4	21
29	Long-term hygrothermal performance of white and black roofs in North American climates. Building and Environment, 2012, 50, 141-154.	6.9	35
30	Investigation of thermal performance of reflective insulations for different applications. Building and Environment, 2012, 52, 32-44.	6.9	46
31	Thermal analysis of above-grade wall assembly with low emissivity materials and furred airspace. Building and Environment, 2011, 46, 1403-1414.	6.9	39
32	Composite Spreader for Cooling Computer Chip With Non-Uniform Heat Dissipation. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 165-172.	1.3	15
33	Effects of metallic coatings on the performance of skutterudite-based segmented unicouples. Energy Conversion and Management, 2007, 48, 1383-1400.	9.2	34
34	Tests results of skutterudite based thermoelectric unicouples. Energy Conversion and Management, 2007, 48, 555-567.	9.2	49
35	Efficient spreaders for cooling high-power computer chips. Applied Thermal Engineering, 2007, 27, 1072-1088.	6.0	12
36	Tests results and performance comparisons of coated and un-coated skutterudite based segmented unicouples. Energy Conversion and Management, 2006, 47, 174-200.	9.2	102

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37	Thermal and performance analyses of efficient radioisotope power systems. Energy Conversion and Management, 2006, 47, 2290-2307.	9.2	15
38	Performance analysis of cascaded thermoelectric converters for advanced radioisotope power systems. Energy Conversion and Management, 2005, 46, 1083-1105.	9.2	39
39	High efficiency segmented thermoelectric unicouple for operation between 973 and 300 K. Energy Conversion and Management, 2003, 44, 1069-1088.	9.2	109
40	Efficient segmented thermoelectric unicouples for space power applications. Energy Conversion and Management, 2003, 44, 1755-1772.	9.2	109