

Hamed H Saber

List of Publications by Year in descending order

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40
papers

953
citations

516710

16
h-index

454955

30
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41
all docs

41
docs citations

41
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	High efficiency segmented thermoelectric unicouple for operation between 973 and 300 K. Energy Conversion and Management, 2003, 44, 1069-1088.	9.2	109
2	Efficient segmented thermoelectric unicouples for space power applications. Energy Conversion and Management, 2003, 44, 1755-1772.	9.2	109
3	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
4	Tests results of skutterudite based thermoelectric unicouples. Energy Conversion and Management, 2007, 48, 555-567.	9.2	49
5	Performance optimization of cascaded and non-cascaded thermoelectric devices for cooling computer chips. Energy Conversion and Management, 2019, 191, 174-192.	9.2	48
6	Investigation of thermal performance of reflective insulations for different applications. Building and Environment, 2012, 52, 32-44.	6.9	46
7	Performance analysis of cascaded thermoelectric converters for advanced radioisotope power systems. Energy Conversion and Management, 2005, 46, 1083-1105.	9.2	39
8	Thermal analysis of above-grade wall assembly with low emissivity materials and furred airspace. Building and Environment, 2011, 46, 1403-1414.	6.9	39
9	Long-term hygrothermal performance of white and black roofs in North American climates. Building and Environment, 2012, 50, 141-154.	6.9	35
10	Effects of metallic coatings on the performance of skutterudite-based segmented unicouples. Energy Conversion and Management, 2007, 48, 1383-1400.	9.2	34
11	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
12	Thermal response of basement wall systems with low-emissivity material and furred airspace. Journal of Building Physics, 2012, 35, 353-371.	2.4	26
13	Experimental characterization of reflective coating material for cool roofs in hot, humid and dusty climate. Energy and Buildings, 2021, 242, 110993.	6.7	24
14	Numerical modeling and experimental investigations of thermal performance of reflective insulations. Journal of Building Physics, 2012, 36, 163-177.	2.4	21
15	Hygrothermal Performance of Cool Roofs Subjected to Saudi Climates. Frontiers in Energy Research, 2019, 7, .	2.3	17
16	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
17	Practical correlations for the thermal resistance of vertical enclosed airspaces for building applications. Building and Environment, 2013, 59, 379-396.	6.9	16
18	Thermal and performance analyses of efficient radioisotope power systems. Energy Conversion and Management, 2006, 47, 2290-2307.	9.2	15

#	ARTICLE	IF	CITATIONS
19	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
20	Thermal performance of wall assemblies with low emissivity. Journal of Building Physics, 2013, 36, 308-329.	2.4	15
21	Energy Performance of Cool Roofs Followed by Development of Practical Design Tool. Frontiers in Energy Research, 2019, 7, .	2.3	14
22	Effective R-value of enclosed reflective space for different building applications. Journal of Building Physics, 2020, 43, 398-427.	2.4	14
23	Efficient spreaders for cooling high-power computer chips. Applied Thermal Engineering, 2007, 27, 1072-1088.	6.0	12
24	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
25	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
26	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
27	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
28	Investigating the Effect of Dust Accumulation on the Solar Reflectivity of Coating Materials for Cool Roof Applications. Energies, 2021, 14, 445.	3.1	10
29	Practical correlation for thermal resistance of 45° sloped enclosed airspaces with downward heat flow for building applications. Building and Environment, 2013, 65, 154-169.	6.9	9
30	Experimental investigation of using thermoelectric cooling for computer chips. Journal of King Saud University, Engineering Sciences, 2020, 32, 321-329.	2.0	8
31	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
32	Practical correlation for thermal resistance of 45° sloped-enclosed airspaces with upward heat flow for building applications. Journal of Building Physics, 2022, 45, 649-674.	2.4	5
33	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
34	Advanced Modeling of Enclosed Airspaces to Determine Thermal Resistance for Building Applications. Energies, 2021, 14, 7772.	3.1	5
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Impact of reflective roofs on the overall energy savings of whole buildings. E3S Web of Conferences, 2020, 172, 25008.	0.5	2
38	3D Numerical Modeling for Assessing the Energy Performance of Single-Zone Buildings with and Without Phase Change Materials. , 2020, , 419-438.		2
39	Sustainable Self-Cooling Framework for Cooling Computer Chip Hotspots Using Thermoelectric Modules. Sustainability, 2021, 13, 12522.	3.2	2
40	Thermal Resistance of 30° Sloped, Enclosed Airspaces Subjected to Upward Heat Flow. Sustainability, 2022, 14, 3260.	3.2	0