

Amirhossein Mosaffa

List of Publications by Citations

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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.

30
papers

1,233
citations

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31
ext. papers

1,505
ext. citations

7.4
avg, IF

5.39
L-index

#	Paper	IF	Citations
30	Thermal performance of a multiple PCM thermal storage unit for free cooling. <i>Energy Conversion and Management</i> , 2013 , 67, 1-7	10.6	133
29	Thermo-economic analysis of combined different ORCs geothermal power plants and LNG cold energy. <i>Geothermics</i> , 2017 , 65, 113-125	4.3	125
28	Exergoeconomic and environmental analyses of CO ₂ /NH ₃ cascade refrigeration systems equipped with different types of flash tank intercoolers. <i>Energy Conversion and Management</i> , 2016 , 117, 442-453	10.6	122
27	Analytical modeling of PCM solidification in a shell and tube finned thermal storage for air conditioning systems. <i>Energy and Buildings</i> , 2012 , 49, 356-361	7	113
26	Energy, exergy and economic assessments of a novel integrated biomass based multigeneration energy system with hydrogen production and LNG regasification cycle. <i>Energy</i> , 2017 , 125, 162-177	7.9	68
25	Exergoeconomic and environmental analyses of an air conditioning system using thermal energy storage. <i>Applied Energy</i> , 2016 , 162, 515-526	10.7	67
24	Energy and exergy evaluation of a multiple-PCM thermal storage unit for free cooling applications. <i>Renewable Energy</i> , 2014 , 68, 452-458	8.1	66
23	Thermoeconomic assessment of a novel integrated biomass based power generation system including gas turbine cycle, solid oxide fuel cell and Rankine cycle. <i>Energy Conversion and Management</i> , 2018 , 161, 1-12	10.6	46
22	Thermodynamic analysis and comparison of combined ejector-absorption and single effect absorption refrigeration systems. <i>Applied Energy</i> , 2014 , 133, 335-346	10.7	44
21	Proposal and thermoeconomic analysis of geothermal flash binary power plants utilizing different types of organic flash cycle. <i>Geothermics</i> , 2018 , 72, 47-63	4.3	34
20	Ejector based CO ₂ transcritical combined cooling and power system utilizing waste heat recovery: A thermoeconomic assessment. <i>Energy Conversion and Management</i> , 2019 , 186, 462-472	10.6	33
19	Thermodynamic and economic assessments of a novel CCHP cycle utilizing low-temperature heat sources for domestic applications. <i>Renewable Energy</i> , 2018 , 120, 134-150	8.1	33
18	Thermoeconomic analysis of a new combination of ammonia/water power generation cycle with GT-MHR cycle and LNG cryogenic exergy. <i>Applied Thermal Engineering</i> , 2017 , 124, 1343-1353	5.8	33
17	Numerical modelling of high temperature latent heat thermal storage for solar application combining with double-effect H ₂ O/LiBr absorption refrigeration system. <i>Solar Energy</i> , 2014 , 110, 398-409	6.8	32
16	Advanced exergy analysis of an air conditioning system incorporating thermal energy storage. <i>Energy</i> , 2014 , 77, 945-952	7.9	31
15	Thermal performance optimization of free cooling systems using enhanced latent heat thermal storage unit. <i>Applied Thermal Engineering</i> , 2013 , 59, 473-479	5.8	31
14	Approximate analytical model for PCM solidification in a rectangular finned container with convective cooling boundaries. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 318-324	5.8	29

13	Analytical approximation for solidification processes in PCM storage with internal fins: imposed heat flux. <i>Heat and Mass Transfer</i> , 2011 , 47, 369-376	2.2	27
12	A comparative study and optimization of enhanced integrated geothermal flash and Kalina cycles: A thermoeconomic assessment. <i>Energy</i> , 2018 , 162, 111-125	7.9	26
11	Thermoeconomic assessment of a novel integrated CHP system incorporating solar energy based biogas-steam reformer with methanol and hydrogen production. <i>Solar Energy</i> , 2019 , 178, 1-16	6.8	25
10	Thermodynamic analysis of a cascaded compression [Absorption heat pump and comparison with three classes of conventional heat pumps for the waste heat recovery. <i>Applied Thermal Engineering</i> , 2018 , 128, 282-296	5.8	23
9	A critical review on phase change material energy storage systems with cascaded configurations. <i>Journal of Cleaner Production</i> , 2021 , 283, 124653	10.3	23
8	Thermodynamic feasibility evaluation of an innovative salinity gradient solar ponds-based ORC using a zeotropic mixture as working fluid and LNG cold energy. <i>Applied Thermal Engineering</i> , 2021 , 186, 116488	5.8	16
7	Novel post combustion CO ₂ capture in the coal-fired power plant employing a transcritical CO ₂ power generation and low temperature steam upgraded by an absorption heat transformer. <i>Energy Conversion and Management</i> , 2020 , 207, 112542	10.6	15
6	Phase change material solidification in a finned cylindrical shell thermal energy storage: An approximate analytical approach. <i>Thermal Science</i> , 2013 , 17, 407-418	1.2	14
5	Investigation of the thermoeconomic improvement of integrating enhanced geothermal single flash with transcritical organic Rankine cycle. <i>Energy Conversion and Management</i> , 2020 , 213, 112831	10.6	11
4	A new flexible geothermal based cogeneration system producing power and refrigeration, part two: The influence of ambient temperature. <i>Renewable Energy</i> , 2019 , 134, 875-887	8.1	9
3	A novel enhanced ammonia-water power/cooling cogeneration system with dual level cooling temperature: Thermodynamic and economic assessments. <i>Energy Conversion and Management</i> , 2021 , 244, 114530	10.6	3
2	Green \bar{h} function solution for transient heat conduction in annular fin during solidification of phase change material. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012 , 33, 1265-1274	3.2	1
1	Exergoeconomic analysis and optimization of a novel integrated two power/cooling cogeneration system using zeotropic mixtures. <i>Energy</i> , 2022 , 253, 124132	7.9	0