

Mostafa Mafi

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

278
citations

1040056

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h-index

1058476

14
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16
all docs

16
docs citations

16
times ranked

195
citing authors

#	ARTICLE	IF	CITATIONS
1	Exergy analysis of multistage cascade low temperature refrigeration systems used in olefin plants. International Journal of Refrigeration, 2009, 32, 279-294.	3.4	54
2	A novel hydrogen liquefaction process based on LNG cold energy and mixed refrigerant cycle. International Journal of Refrigeration, 2021, 131, 263-274.	3.4	51
3	Applying an integrated trigeneration incorporating hybrid energy systems for natural gas liquefaction. Energy, 2018, 149, 848-864.	8.8	45
4	Optimization of operation parameters of refrigeration cycle using particle swarm and NLP techniques. Journal of Natural Gas Science and Engineering, 2014, 21, 779-790.	4.4	29
5	Sensitivity analysis, economic optimization, and configuration design of mixed refrigerant cycles by NLP techniques. Journal of Natural Gas Science and Engineering, 2015, 24, 144-155.	4.4	28
6	Comparison of low temperature mixed refrigerant cycles for separation systems. International Journal of Energy Research, 2009, 33, 358-377.	4.5	12
7	Performance Evaluation of Al ₂ O ₃ /Water Nanofluid as Coolant in a Double-Tube Heat Exchanger Flowing under a Turbulent Flow Regime. Advances in Mechanical Engineering, 2012, 4, 891-882.	1.6	12
8	A novel approach for operational optimization of multi-stage refrigeration cycles in gas refineries. International Journal of Refrigeration, 2017, 80, 169-181.	3.4	10
9	Normalized sensitivity analysis of LNG processes - Case studies: Cascade and single mixed refrigerant systems. Energy, 2019, 188, 116068.	8.8	10
10	Thermodynamic investigation and optimization of two novel combined power-refrigeration cycles using cryogenic LNG energy. International Journal of Refrigeration, 2021, 124, 167-183.	3.4	9
11	A new method to boost performance of heat recovery steam generators by integrating pinch and exergy analyses. Advances in Mechanical Engineering, 2018, 10, 168781401877787.	1.6	6
12	Introducing a proper hydrogen liquefaction concept for using wasted heat of thermal power plants-case study: Parand gas power plant. Chinese Journal of Chemical Engineering, 2021, 40, 187-196.	3.5	6
13	Fracture analysis of a semi-elliptical crack in a nozzle-vessel junction under external loads. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 871-886.	2.1	3
14	Development of geothermal heat pumps by using environment friendly refrigerants. Journal of Renewable and Sustainable Energy, 2018, 10, 043901.	2.0	3
15	Variable flow and optimization of chiller loading effect on energy saving for screw vapor compression-single effect absorption hybrid chiller plant in hospital mechanical room case study: Tehran heart hospital. Mechanics and Industry, 2021, 22, 9.	1.3	0