Hassan Hajabdollahi

List of Publications by Year
in descending order

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73 papers	2,109 citations	201385 27 h-index	243296 44 g-index
75 all docs	75 docs citations	75 times ranked	1320 citing authors

#	Article	IF	Citations
1	Numerical study on performance enhancement of the fin and tube heat exchanger using different nanoparticle shapes. International Journal of Environmental Science and Technology, 2022, 19, 1407-1422.	1.8	4
2	Thermo-economic modeling and optimization of a solar network using flat plate collectors. Energy, 2022, 244, 123070.	4.5	7
3	Technical and economic evaluation of the combined production cooling, heating, power, freshwater, and hydrogen (CCHPWH) system in the cold climate. Journal of the Taiwan Institute of Chemical Engineers, 2022, 133, 104262.	2.7	7
4	Thermoeconomic evaluation of using thermal energy storage tank in the cogeneration production system of heating, power (CHP), and freshwater. , 2022, 22, 153-165.		1
5	A combined cycle power plant integrated with a desalination system: Energy, exergy, economic and environmental (4E) analysis and multi-objective optimization. Korean Journal of Chemical Engineering, 2022, 39, 1688-1708.	1.2	8
6	Thermal and economic modeling and optimization of solar-assisted underfloor heating system considering hourly analysis. Journal of Thermal Analysis and Calorimetry, 2022, 147, 12079-12092.	2.0	2
7	Multi-objective optimization of hybrid solar/wind/diesel/battery system for different climates of Iran. Environment, Development and Sustainability, 2021, 23, 10910-10936.	2.7	11
8	Experimental study and optimization of friction factor and heat transfer in the fin and tube heat exchanger using nanofluid. Applied Nanoscience (Switzerland), 2021, 11, 657-668.	1.6	6
9	Thermoeconomic analysis and multiobjective optimization of tubular heat exchanger network using different shapes of nanoparticles. Heat Transfer, 2021, 50, 56-80.	1.7	3
10	COMPARISON OF THE EFFECT OF VARIOUS NANOPARTICLE SHAPES ON OPTIMAL DESIGN OF PLATE HEAT EXCHANGER. Heat Transfer Research, 2021, 52, 29-47.	0.9	5
11	Optimization of energy systems using the concept of balance in the nature. Environmental Science and Pollution Research, 2021, 28, 37580-37591.	2.7	0
12	Different nanofluids as coolant in heat exchanger network: Thermoeconomic modeling and multi-objective optimization. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1337-1350.	1.4	1
13	Numerical investigation on the effect of diamond-shaped turbulator on thermo-hydraulic performance of tube. Physics of Fluids, 2021, 33, .	1.6	3
14	Energy, economy, and ecological (3E)â€based performance evaluation of a steam cycle power plant through optimization investigation. Heat Transfer, 2021, 50, 6491.	1.7	1
15	Thermoeconomic assessment of integrated solar flat plat collector with cross flow heat exchanger as solar air heater using numerical analysis. Renewable Energy, 2021, 168, 491-504.	4.3	7
16	Performance evaluation of a shell and tube heat exchanger with recovery of mass flow rate. Journal of the Taiwan Institute of Chemical Engineers, 2021, , .	2.7	7
17	Comparison of gas turbine and diesel engine in optimal design of CCHP plant integrated with multi-effect and reverse osmosis desalinations. Chemical Engineering Research and Design, 2021, 154, 505-518.	2.7	27
18	Fin and tube heat exchanger: Constructal thermo-economic optimization. International Journal of Heat and Mass Transfer, 2021, 173, 121257.	2.5	14

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19	Conceptual design of LNG regasification process using liquid air energy storage (LAES) and LNG production process using magnetic refrigeration system. Sustainable Energy Technologies and Assessments, 2021, 46, 101239.	1.7	4
20	Life cycle assessment (LCA) of a novel geothermal-based multigeneration system using LNG cold energy- integration of Kalina cycle, stirling engine, desalination unit and magnetic refrigeration system. Energy, 2021, 231, 120888.	4.5	35
21	Performance Evaluation of Solar Power Plants: A Review and a Case Study. Processes, 2021, 9, 2253.	1.3	9
22	Multi-objective optimization of solar collector using water-based nanofluids with different types of nanoparticles. Journal of Thermal Analysis and Calorimetry, 2020, 140, 991-1002.	2.0	9
23	Heat transfer enhancement and optimization of a tube fitted with twisted tape in a fin-and-tube heat exchanger. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1015-1027.	2.0	11
24	Multi-objective optimization of a geothermal-based multigeneration system for heating, power and purified water production purpose using evolutionary algorithm. Energy Conversion and Management, 2020, 223, 113476.	4.4	41
25	Rotary regenerator: Constructal thermoeconomic optimization. Journal of the Taiwan Institute of Chemical Engineers, 2020, 113, 231-240.	2.7	7
26	Numerical study of heat transfer and friction factor in a tube with groove and rib on the wall. Heat Transfer, 2020, 49, 1214-1236.	1.7	6
27	Multi-objective optimization of plate fin heat exchanger using constructal theory. International Communications in Heat and Mass Transfer, 2019, 108, 104283.	2.9	30
28	Estimating the non-uniform air velocity distribution for the optimal design of a heat exchanger. Applied Thermal Engineering, 2019, 153, 704-714.	3.0	9
29	Comparison of stationary and rotary matrix heat exchangers using teaching-learning-based optimization algorithm. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2018, 232, 493-502.	1.4	4
30	Investigating the effect of nanofluid on optimal design of solar flat plate collector. , 2018, , .		2
31	Economic feasibility of trigeneration plants for various prime movers and triple load demands. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 371-382.	1.4	2
32	Investigating the effect of nanoparticle on thermo-economic optimization of fin and tube heat exchanger. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 1127-1140.	1.4	15
33	Thermo-economic modeling and multi-objective optimization of solar water heater using flat plate collectors. Solar Energy, 2017, 155, 191-202.	2.9	37
34	Numerical study on impact behavior of nanoparticle shapes on the performance improvement of shell and tube heat exchanger. Chemical Engineering Research and Design, 2017, 125, 449-460.	2.7	37
35	The effect of using different types of nanoparticles on optimal design of fin and tube heat exchanger. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 905-918.	0.8	12
36	Improving the rate of heat transfer and material in the extended surface using multi-objective constructal optimization. International Journal of Heat and Mass Transfer, 2017, 115, 589-596.	2.5	19

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37	Multi-objective optimization of shell-and-tube heat exchanger by constructal theory. Applied Thermal Engineering, 2017, 125, 9-19.	3.0	88
38	4E Multiâ€objective Optimization of Cogeneration Plant with Details Modeling of Recuperator. Heat Transfer - Asian Research, 2016, 45, 773-794.	2.8	2
39	Prime mover selection in thermal power plant integrated with organic Rankine cycle for waste heat recovery using a novel multi criteria decision making approach. Applied Thermal Engineering, 2016, 102, 1262-1279.	3.0	24
40	Investigating the effect of properties variation in optimum design of compact heat exchanger using segmented method. Chemical Engineering Research and Design, 2016, 112, 46-55.	2.7	6
41	Assessment of nanoparticles in thermoeconomic improvement of shell and tube heat exchanger. Applied Thermal Engineering, 2016, 106, 827-837.	3.0	20
42	Effect of flow maldistribution on the optimal design of a cross flow heat exchanger. International Journal of Thermal Sciences, 2016, 109, 242-252.	2.6	19
43	Comparison of different scenarios in optimal design of a CCHP plant. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2016, 230, 247-262.	1.4	6
44	Thermo-Economic Analysis and Multiobjective Optimization of Dual Pressure Combined Cycle Power Plant with Supplementary Firing. Heat Transfer - Asian Research, 2016, 45, 59-84.	2.8	8
45	Soft Computing based Optimization of Cogeneration Plant with Different Load Demands. Heat Transfer - Asian Research, 2016, 45, 556-577.	2.8	4
46	A comparative study on the shell and tube and gasket-plate heat exchangers: The economic viewpoint. Applied Thermal Engineering, 2016, 92, 271-282.	3.0	49
47	Investigating the Optimum Operational Strategy of Energy Storage Tank by Using Particle Swarm Algorithm. Heat Transfer - Asian Research, 2016, 45, 648-660.	2.8	1
48	Assessment of an Optimal Combined Heat Pump and Trigeneration System. Energy Technology, 2015, 3, 1026-1037.	1.8	2
49	Thermo-economic optimization of RSORC (regenerative solar organic Rankine cycle) considering hourly analysis. Energy, 2015, 87, 369-380.	4.5	53
50	Thermo-Economic Optimization of Solar CCHP Using Both Genetic and Particle Swarm Algorithms. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.1	33
51	Investigating the effect of non-similar fins in thermoeconomic optimization of plate fin heat exchanger. Applied Thermal Engineering, 2015, 82, 152-161.	3.0	33
52	Investigating the effects of load demands on selection of optimum CCHP-ORC plant. Applied Thermal Engineering, 2015, 87, 547-558.	3.0	35
53	Evaluation of cooling and thermal energy storage tanks in optimization of multi-generation system. Journal of Energy Storage, 2015, 4, 1-13.	3.9	22
54	Assessment of new operational strategy in optimization of CCHP plant for different climates using evolutionary algorithms. Applied Thermal Engineering, 2015, 75, 468-480.	3.0	101

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55	Effectiveness of evolutionary algorithms for optimization of heat exchangers. Energy Conversion and Management, 2015, 89, 281-288.	4.4	55
56	4E analysis and multi-objective optimization of CCHP using MOPSOA. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2014, 228, 43-60.	1.4	31
57	Thermo-economic and environmental optimization of solar assisted heat pump by using multi-objective particle swam algorithm. Energy, 2014, 72, 680-690.	4.5	59
58	Multi-objective aero acoustic optimization of rear end in a simplified car model by using hybrid Robust Parameter Design, Artificial Neural Networks and Genetic Algorithm methods. Computers and Fluids, 2014, 90, 123-132.	1.3	30
59	Thermo-economic environmental optimization of Organic Rankine Cycle for diesel waste heat recovery. Energy, 2013, 63, 142-151.	4.5	97
60	Thermal-economic optimization of an air-cooled heat exchanger unit. Applied Thermal Engineering, 2013, 54, 43-55.	3.0	34
61	Thermoâ€economic Optimization of Gas Turbine Power Plant with Details in Intercooler. Heat Transfer - Asian Research, 2013, 42, 704-723.	2.8	8
62	OPTIMUM DESIGN OF GASKET PLATE HEAT EXCHANGER USING MULTIMODAL GENETIC ALGORITHM. Heat Transfer Research, 2013, 44, 761-789.	0.9	21
63	Soft computing based multi-objective optimization of steam cycle power plant using NSGA-II and ANN. Applied Soft Computing Journal, 2012, 12, 3648-3655.	4.1	70
64	Exergetic Optimization of Shell-and-Tube Heat Exchangers Using NSGA-II. Heat Transfer Engineering, 2012, 33, 618-628.	1.2	55
65	Thermo-economic modeling and optimization of underfloor heating using evolutionary algorithms. Energy and Buildings, 2012, 47, 91-97.	3.1	22
66	Multi-Objective Optimization of Plain Fin-and-Tube Heat Exchanger Using Evolutionary Algorithm. Journal of Thermophysics and Heat Transfer, 2011, 25, 424-431.	0.9	42
67	An Exergy-Based Multi-Objective Optimization Of A Heat Recovery Steam Generator (HRSG) In A Combined Cycle Power Plant (CCPP) Using Evolutionary Algorithm. International Journal of Green Energy, 2011, 8, 44-64.	2.1	70
68	CFD modeling and multi-objective optimization of compact heat exchanger using CAN method. Applied Thermal Engineering, 2011, 31, 2597-2604.	3.0	39
69	Thermoeconomic optimization of a shell and tube condenser using both genetic algorithm and particle swarm. International Journal of Refrigeration, 2011, 34, 1066-1076.	1.8	57
70	Cost and Entropy Generation Minimization of a Cross-Flow Plate Fin Heat Exchanger Using Multi-Objective Genetic Algorithm. Journal of Heat Transfer, 2011, 133, .	1.2	83
71	Multi-objective optimization of shell and tube heat exchangers. Applied Thermal Engineering, 2010, 30, 1937-1945.	3.0	163
72	Thermal-economic multi-objective optimization of plate fin heat exchanger using genetic algorithm. Applied Energy, 2010, 87, 1893-1902.	5.1	214

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73	Multi-objective optimization of rotary regenerator using genetic algorithm. International Journal of Thermal Sciences, 2009, 48, 1967-1977.	2.6	49