

# 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	Thermal-economic multi-objective optimization of plate fin heat exchanger using genetic algorithm. Applied Energy, 2010, 87, 1893-1902.	5.1	214
2	Multi-objective optimization of shell and tube heat exchangers. Applied Thermal Engineering, 2010, 30, 1937-1945.	3.0	163
3	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
4	Thermo-economic environmental optimization of Organic Rankine Cycle for diesel waste heat recovery. Energy, 2013, 63, 142-151.	4.5	97
5	Multi-objective optimization of shell-and-tube heat exchanger by constructal theory. Applied Thermal Engineering, 2017, 125, 9-19.	3.0	88
6	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
7	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
8	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
9	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
10	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
11	Exergetic Optimization of Shell-and-Tube Heat Exchangers Using NSGA-II. Heat Transfer Engineering, 2012, 33, 618-628.	1.2	55
12	Effectiveness of evolutionary algorithms for optimization of heat exchangers. Energy Conversion and Management, 2015, 89, 281-288.	4.4	55
13	Thermo-economic optimization of RSORC (regenerative solar organic Rankine cycle) considering hourly analysis. Energy, 2015, 87, 369-380.	4.5	53
14	Multi-objective optimization of rotary regenerator using genetic algorithm. International Journal of Thermal Sciences, 2009, 48, 1967-1977.	2.6	49
15	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
16	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
17	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
18	CFD modeling and multi-objective optimization of compact heat exchanger using CAN method. Applied Thermal Engineering, 2011, 31, 2597-2604.	3.0	39

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19	Thermo-economic modeling and multi-objective optimization of solar water heater using flat plate collectors. <i>Solar Energy</i> , 2017, 155, 191-202.	2.9	37
20	Numerical study on impact behavior of nanoparticle shapes on the performance improvement of shell and tube heat exchanger. <i>Chemical Engineering Research and Design</i> , 2017, 125, 449-460.	2.7	37
21	Investigating the effects of load demands on selection of optimum CCHP-ORC plant. <i>Applied Thermal Engineering</i> , 2015, 87, 547-558.	3.0	35
22	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. <i>Energy</i> , 2021, 231, 120888.	4.5	35
23	Thermal-economic optimization of an air-cooled heat exchanger unit. <i>Applied Thermal Engineering</i> , 2013, 54, 43-55.	3.0	34
24	Thermo-Economic Optimization of Solar CCHP Using Both Genetic and Particle Swarm Algorithms. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015, 137, .	1.1	33
25	Investigating the effect of non-similar fins in thermoeconomic optimization of plate fin heat exchanger. <i>Applied Thermal Engineering</i> , 2015, 82, 152-161.	3.0	33
26	4<i>E</i> analysis and multi-objective optimization of CCHP using MOPSOA. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2014, 228, 43-60.	1.4	31
27	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. <i>Computers and Fluids</i> , 2014, 90, 123-132.	1.3	30
28	Multi-objective optimization of plate fin heat exchanger using constructal theory. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104283.	2.9	30
29	Comparison of gas turbine and diesel engine in optimal design of CCHP plant integrated with multi-effect and reverse osmosis desalinations. <i>Chemical Engineering Research and Design</i> , 2021, 154, 505-518.	2.7	27
30	Prime mover selection in thermal power plant integrated with organic Rankine cycle for waste heat recovery using a novel multi criteria decision making approach. <i>Applied Thermal Engineering</i> , 2016, 102, 1262-1279.	3.0	24
31	Thermo-economic modeling and optimization of underfloor heating using evolutionary algorithms. <i>Energy and Buildings</i> , 2012, 47, 91-97.	3.1	22
32	Evaluation of cooling and thermal energy storage tanks in optimization of multi-generation system. <i>Journal of Energy Storage</i> , 2015, 4, 1-13.	3.9	22
33	OPTIMUM DESIGN OF GASKET PLATE HEAT EXCHANGER USING MULTIMODAL GENETIC ALGORITHM. <i>Heat Transfer Research</i> , 2013, 44, 761-789.	0.9	21
34	Assessment of nanoparticles in thermoeconomic improvement of shell and tube heat exchanger. <i>Applied Thermal Engineering</i> , 2016, 106, 827-837.	3.0	20
35	Effect of flow maldistribution on the optimal design of a cross flow heat exchanger. <i>International Journal of Thermal Sciences</i> , 2016, 109, 242-252.	2.6	19
36	Improving the rate of heat transfer and material in the extended surface using multi-objective constructal optimization. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 589-596.	2.5	19

#	ARTICLE	IF	CITATIONS
37	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
38	Fin and tube heat exchanger: Constructal thermo-economic optimization. International Journal of Heat and Mass Transfer, 2021, 173, 121257.	2.5	14
39	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
40	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
41	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
42	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
43	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
44	Performance Evaluation of Solar Power Plants: A Review and a Case Study. Processes, 2021, 9, 2253.	1.3	9
45	Thermo-economic Optimization of Gas Turbine Power Plant with Details in Intercooler. Heat Transfer - Asian Research, 2013, 42, 704-723.	2.8	8
46	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
47	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
48	Rotary regenerator: Constructal thermoeconomic optimization. Journal of the Taiwan Institute of Chemical Engineers, 2020, 113, 231-240.	2.7	7
49	Thermoeconomic assessment of integrated solar flat plate collector with cross flow heat exchanger as solar air heater using numerical analysis. Renewable Energy, 2021, 168, 491-504.	4.3	7
50	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
51	Thermo-economic modeling and optimization of a solar network using flat plate collectors. Energy, 2022, 244, 123070.	4.5	7
52	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
53	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
54	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

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55	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
56	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
57	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
58	Soft Computing based Optimization of Cogeneration Plant with Different Load Demands. Heat Transfer - Asian Research, 2016, 45, 556-577.	2.8	4
59	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
60	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
61	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
62	Thermoeconomic analysis and multiobjective optimization of tubular heat exchanger network using different shapes of nanoparticles. Heat Transfer, 2021, 50, 56-80.	1.7	3
63	Numerical investigation on the effect of diamond-shaped turbulator on thermo-hydraulic performance of tube. Physics of Fluids, 2021, 33, .	1.6	3
64	Assessment of an Optimal Combined Heat Pump and Trigeration System. Energy Technology, 2015, 3, 1026-1037.	1.8	2
65	Multi-Objective Optimization of Cogeneration Plant with Details Modeling of Recuperator. Heat Transfer - Asian Research, 2016, 45, 773-794.	2.8	2
66	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
67	Investigating the effect of nanofluid on optimal design of solar flat plate collector. , 2018, , .		2
68	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
69	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
70	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
71	Energy, economy, and ecological (3E)-based performance evaluation of a steam cycle power plant through optimization investigation. Heat Transfer, 2021, 50, 6491.	1.7	1
72	Thermoeconomic evaluation of using thermal energy storage tank in the cogeneration production system of heating, power (CHP), and freshwater. , 2022, 22, 153-165.		1

#	ARTICLE	IF	CITATIONS
73	Optimization of energy systems using the concept of balance in the nature. Environmental Science and Pollution Research, 2021, 28, 37580-37591.	2.7	0