

Mortaza Yari

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124
papers

4,623
citations

40
h-index

62
g-index

125
ext. papers

5,438
ext. citations

6.5
avg, IF

6.48
L-index

#	Paper	IF	Citations
124	Exergetic analysis of various types of geothermal power plants. <i>Renewable Energy</i> , 2010 , 35, 112-121	8.1	285
123	Exergoeconomic comparison of TLC (trilateral Rankine cycle), ORC (organic Rankine cycle) and Kalina cycle using a low grade heat source. <i>Energy</i> , 2015 , 83, 712-722	7.9	175
122	Thermoeconomic analysis and optimization of an ammonia-water power/cooling cogeneration cycle. <i>Energy</i> , 2012 , 47, 271-283	7.9	162
121	Exergoeconomic analysis and optimization of basic, dual-pressure and dual-fluid ORCs and Kalina geothermal power plants: A comparative study. <i>Renewable Energy</i> , 2015 , 83, 527-542	8.1	148
120	Thermodynamic analysis and multi-objective optimization of various ORC (organic Rankine cycle) configurations using zeotropic mixtures. <i>Energy</i> , 2016 , 109, 791-802	7.9	146
119	Advanced exergy analysis of the Kalina cycle applied for low temperature enhanced geothermal system. <i>Energy Conversion and Management</i> , 2016 , 108, 190-201	10.6	122
118	Exergoeconomic assessment and parametric study of a Gas Turbine-Modular Helium Reactor combined with two Organic Rankine Cycles. <i>Energy</i> , 2014 , 65, 533-543	7.9	118
117	Thermodynamic analyses of an externally fired gas turbine combined cycle integrated with a biomass gasification plant. <i>Energy Conversion and Management</i> , 2013 , 70, 107-115	10.6	115
116	Exergoeconomic analysis of double effect absorption refrigeration systems. <i>Energy Conversion and Management</i> , 2013 , 65, 13-25	10.6	99
115	A comparative thermodynamic analysis of ORC and Kalina cycles for waste heat recovery: A case study for CGAM cogeneration system. <i>Case Studies in Thermal Engineering</i> , 2017 , 9, 1-13	5.6	89
114	An exergoeconomic investigation of waste heat recovery from the Gas Turbine-Modular Helium Reactor (GT-MHR) employing an ammonia-water power/cooling cycle. <i>Energy</i> , 2013 , 61, 397-409	7.9	88
113	A comparative exergoeconomic analysis of two biomass and co-firing combined power plants. <i>Energy Conversion and Management</i> , 2013 , 76, 83-91	10.6	87
112	Performance analysis and optimization of a new two-stage ejector-expansion transcritical CO ₂ refrigeration cycle. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 1997-2005	4.1	83
111	On the exergoeconomic assessment of employing Kalina cycle for GT-MHR waste heat utilization. <i>Energy Conversion and Management</i> , 2015 , 90, 364-374	10.6	73
110	Advanced exergy analysis applied to an externally-fired combined-cycle power plant integrated with a biomass gasification unit. <i>Energy</i> , 2013 , 59, 775-780	7.9	70
109	Performance analysis of the different Organic Rankine Cycles (ORCs) using dry fluids. <i>International Journal of Exergy</i> , 2009 , 6, 323	1.2	68
108	Utilization of waste heat from GT-MHR for power generation in organic Rankine cycles. <i>Applied Thermal Engineering</i> , 2010 , 30, 366-375	5.8	66

107	A comparative study of two SOFC based cogeneration systems fed by municipal solid waste by means of either the gasifier or digester. <i>Energy</i> , 2016 , 114, 586-602	7.9	65
106	Thermodynamic analysis and optimization of a novel combined power and ejector refrigeration cycle Desalination system. <i>Applied Energy</i> , 2017 , 208, 239-251	10.7	64
105	Solar-assisted integrated biogas solid oxide fuel cell (SOFC) installation in wastewater treatment plant: Energy and economic analysis. <i>Applied Energy</i> , 2017 , 191, 620-638	10.7	63
104	Absorption heat transformers A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 34, 430-452	16.2	61
103	Comparative and parametric study of double flash and single flash/ORC combined cycles based on exergoeconomic criteria. <i>Applied Thermal Engineering</i> , 2015 , 91, 479-495	5.8	58
102	A thermodynamic study of waste heat recovery from GT-MHR using organic Rankine cycles. <i>Heat and Mass Transfer</i> , 2011 , 47, 181-196	2.2	57
101	Thermodynamic and exergoeconomic analysis of biogas fed solid oxide fuel cell power plants emphasizing on anode and cathode recycling: A comparative study. <i>Energy Conversion and Management</i> , 2015 , 105, 596-606	10.6	53
100	Cycle improvements to ejector-expansion transcritical CO ₂ two-stage refrigeration cycle. <i>International Journal of Energy Research</i> , 2008 , 32, 677-687	4.5	53
99	A novel cogeneration system for sustainable water and power production by integration of a solar still and PV module. <i>Desalination</i> , 2016 , 398, 1-11	10.3	51
98	A comparative analysis of rankine and absorption power cycles from exergoeconomic viewpoint. <i>Energy Conversion and Management</i> , 2014 , 88, 657-668	10.6	49
97	Development of an exergoeconomic model for analysis and multi-objective optimization of a thermoelectric heat pump. <i>Energy Conversion and Management</i> , 2016 , 130, 1-13	10.6	48
96	Thermodynamic and economic performance improvement of ORCs through using zeotropic mixtures: Case of waste heat recovery in an offshore platform. <i>Case Studies in Thermal Engineering</i> , 2016 , 8, 51-70	5.6	48
95	Proposal and analysis of a new combined cogeneration system based on the GT-MHR cycle. <i>Desalination</i> , 2012 , 286, 417-428	10.3	47
94	Exergoeconomic analysis and multi-objective optimization of a marine engine waste heat driven RO desalination system integrated with an organic Rankine cycle using zeotropic working fluid. <i>Desalination</i> , 2017 , 422, 113-123	10.3	47
93	Energy and exergy analyses of GAX and GAX hybrid absorption refrigeration cycles. <i>Renewable Energy</i> , 2011 , 36, 2011-2020	8.1	47
92	Performance optimization and improvement of a flash-binary geothermal power plant using zeotropic mixtures with PSO algorithm. <i>Geothermics</i> , 2018 , 74, 45-56	4.3	46
91	Comparison of different gas turbine cycles and advanced exergy analysis of the most effective. <i>Energy</i> , 2016 , 116, 701-715	7.9	46
90	Ammonia-water cogeneration cycle for utilizing waste heat from the GT-MHR plant. <i>Applied Thermal Engineering</i> , 2012 , 48, 176-185	5.8	45

89	Multi-objective optimization of an indirectly integrated solid oxide fuel cell-gas turbine cogeneration system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21470-21488	6.7	45
88	A comprehensive exergoeconomic analysis of absorption power and cooling cogeneration cycles based on Kalina, part 1: Simulation. <i>Energy Conversion and Management</i> , 2018 , 158, 437-459	10.6	43
87	Thermodynamic analyses of a biomass integrated fired combined cycle. <i>Applied Thermal Engineering</i> , 2013 , 59, 60-68	5.8	43
86	Energy and Exergy Analyses of a New Combined Cycle for Producing Electricity and Desalinated Water Using Geothermal Energy. <i>Sustainability</i> , 2014 , 6, 1796-1820	3.6	41
85	Alternative absorption heat transformer configurations integrated with water desalination system. <i>Desalination</i> , 2013 , 328, 74-82	10.3	40
84	A Comparative Exergoeconomic Analysis of Waste Heat Recovery from a Gas Turbine-Modular Helium Reactor via Organic Rankine Cycles. <i>Sustainability</i> , 2014 , 6, 2474-2489	3.6	40
83	Performance improvement of a transcritical CO ₂ refrigeration cycle using two-stage thermoelectric modules in sub-cooler and gas cooler. <i>International Journal of Refrigeration</i> , 2017 , 74, 105-115	3.8	39
82	Multi-objective optimization of two double-flash geothermal power plants integrated with absorption heat transformation and water desalination. <i>Journal of Cleaner Production</i> , 2018 , 195, 796-809	10.3	38
81	A 0D model for diesel engine simulation and employing a transcritical dual loop Organic Rankine Cycle (ORC) for waste heat recovery from its exhaust and coolant: Thermodynamic and economic analysis. <i>Applied Thermal Engineering</i> , 2019 , 150, 329-347	5.8	38
80	A comprehensive thermodynamic and exergoeconomic comparison between single- and two-stage thermoelectric cooler and heater. <i>Applied Thermal Engineering</i> , 2017 , 124, 756-766	5.8	35
79	Thermodynamic assessment of a novel SOFC based CCHP system in a wastewater treatment plant. <i>Energy</i> , 2018 , 150, 299-309	7.9	33
78	A comparative study of the performance characteristics of double-effect absorption refrigeration systems. <i>International Journal of Energy Research</i> , 2012 , 36, 182-192	4.5	33
77	Methanol synthesis from renewable H ₂ and captured CO ₂ from S-Graz cycle [Energy, exergy, exergoeconomic and exergoenvironmental (4E) analysis. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26128-26147	6.7	32
76	Exergoeconomic analysis and optimization of a novel hybrid cogeneration system: High-temperature proton exchange membrane fuel cell/Kalina cycle, driven by solar energy. <i>Energy Conversion and Management</i> , 2019 , 190, 14-33	10.6	31
75	A zero-dimensional model for simulation of a Diesel engine and exergoeconomic analysis of waste heat recovery from its exhaust and coolant employing a high-temperature Kalina cycle. <i>Energy Conversion and Management</i> , 2019 , 198, 111782	10.6	31
74	Thermodynamic analysis of employing ejector and organic Rankine cycles for GT-MHR waste heat utilization: A comparative study. <i>Energy Conversion and Management</i> , 2013 , 67, 125-137	10.6	31
73	Theoretical study on the performance of a solar still system integrated with PCM-PV module for sustainable water and power generation. <i>Desalination</i> , 2018 , 443, 184-197	10.3	31
72	Thermodynamic assessment of zero-emission power, hydrogen and methanol production using captured CO ₂ from S-Graz oxy-fuel cycle and renewable hydrogen. <i>Energy Conversion and Management</i> , 2018 , 161, 53-65	10.6	30

71	Effect of geometry and applied currents on the exergy and exergoeconomic performance of a two-stage cascaded thermoelectric cooler. <i>International Journal of Refrigeration</i> , 2018 , 85, 1-12	3.8	29
70	Exergetic analysis of the vapour compression refrigeration cycle using ejector as an expander. <i>International Journal of Exergy</i> , 2008 , 5, 326	1.2	29
69	Exergoeconomic evaluation and optimization of a novel combined augmented Kalina cycle/gas turbine-modular helium reactor. <i>Applied Thermal Engineering</i> , 2016 , 109, 109-120	5.8	29
68	Investigation on performance of an integrated SOFC-Goswami system using wood gasification. <i>Energy</i> , 2018 , 148, 614-628	7.9	28
67	Simulation and optimization of novel configurations of triple absorption heat transformers integrated to a water desalination system. <i>Desalination</i> , 2014 , 348, 39-48	10.3	28
66	Exergoeconomic assessment and optimization of a syngas production system with a desired H ₂ /CO ratio based on methane tri-reforming process. <i>Journal of CO₂ Utilization</i> , 2018 , 25, 283-301	7.6	27
65	A comprehensive comparison between CO ₂ and Ethane as a refrigerant in a two-stage ejector-expansion transcritical refrigeration cycle integrated with an organic Rankine cycle (ORC). <i>Journal of Supercritical Fluids</i> , 2018 , 133, 494-502	4.2	27
64	Multi-objective metaheuristic optimization of combined flash-binary geothermal and humidification dehumidification desalination systems. <i>Desalination</i> , 2020 , 490, 114456	10.3	26
63	A comparison of refrigerants in a two-stage ejector-expansion transcritical refrigeration cycle based on exergoeconomic and environmental analysis. <i>International Journal of Refrigeration</i> , 2017 , 84, 139-150	3.8	26
62	A comparative study on the ammonia-water based bottoming power cycles: The exergoeconomic viewpoint. <i>Energy</i> , 2015 , 87, 425-434	7.9	26
61	Advanced exergy analysis for an anode gas recirculation solid oxide fuel cell. <i>Energy</i> , 2017 , 141, 1097-1112	7.2	25
60	A comprehensive exergoeconomic analysis of absorption power and cooling cogeneration cycles based on Kalina, Part 2: Parametric study and optimization. <i>Energy Conversion and Management</i> , 2018 , 161, 74-103	10.6	25
59	Assessment of different configurations of solar energy driven organic flash cycles (OFCs) via exergy and exergoeconomic methodologies. <i>Renewable Energy</i> , 2018 , 115, 1231-1248	8.1	25
58	Comparative assessment of different categories of absorption heat transformers in water desalination process. <i>Desalination</i> , 2016 , 396, 17-29	10.3	25
57	Performance evaluation of Zeolite 13X/CaCl ₂ two-bed adsorption refrigeration system. <i>International Journal of Thermal Sciences</i> , 2014 , 80, 76-82	4.1	25
56	An efficient auxiliary power generation system for exploiting hydrogen boil-off gas (BOG) cold exergy based on PEM fuel cell and two-stage ORC: Thermodynamic and exergoeconomic viewpoints. <i>Energy Conversion and Management</i> , 2019 , 195, 502-518	10.6	24
55	Thermodynamic analysis of a modified oxy-fuel cycle, high steam content Graz cycle with a dual-pressure heat recovery steam generator. <i>International Journal of Exergy</i> , 2016 , 21, 331	1.2	24
54	Analysis and performance assessment of a novel ORC based multi-generation system for power, distilled water and heat. <i>Renewable Energy</i> , 2018 , 119, 262-281	8.1	24

53	Energy and exergy analyses of a novel near zero emission plant: Combination of MATIANT cycle with gasification unit. <i>Applied Thermal Engineering</i> , 2016 , 108, 893-904	5.8	24
52	Exergoeconomic comparison of solar-assisted absorption heat pumps, solar heaters and gas boiler systems for district heating in Sarein Town, Iran. <i>Applied Thermal Engineering</i> , 2019 , 153, 409-425	5.8	22
51	Thermodynamic modeling and optimization of a combined biogas steam reforming system and organic Rankine cycle for coproduction of power and hydrogen. <i>Renewable Energy</i> , 2019 , 130, 87-102	8.1	22
50	Performance assessment of a horizontal-coil geothermal heat pump. <i>International Journal of Energy Research</i> , 2007 , 31, 288-299	4.5	22
49	Thermodynamic and exergoeconomic analysis of two novel tri-generation cycles for power, hydrogen and freshwater production from geothermal energy. <i>Energy Conversion and Management</i> , 2020 , 226, 113544	10.6	22
48	Three-objective optimization of a novel triple-effect absorption heat transformer combined with a water desalination system. <i>Energy Conversion and Management</i> , 2017 , 138, 131-147	10.6	21
47	Three-objective optimization of water desalination systems based on the double-stage absorption heat transformers. <i>Desalination</i> , 2017 , 405, 10-28	10.3	21
46	Thermodynamic analysis and optimization of a novel dual-evaporator system powered by electrical and solar energy sources. <i>Energy</i> , 2013 , 61, 646-656	7.9	21
45	A comparative study on the GAX based absorption refrigeration systems: SGAX, GAXH and GAX-E. <i>Applied Thermal Engineering</i> , 2012 , 44, 29-38	5.8	21
44	Thermal and economic assessment of a solar chimney cooled semi-transparent photovoltaic (STPV) power plant in different climates. <i>Solar Energy</i> , 2019 , 185, 480-493	6.8	20
43	Second-law analysis of flow and heat transfer inside a microannulus. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 78-87	5.8	20
42	Dehydration kinetics of polyvinyl alcohol hydrogel wound dressings during wound healing process. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2010 , 28, 573-580	3.5	20
41	A novel cogeneration cycle based on a recompression supercritical carbon dioxide cycle for waste heat recovery in nuclear power plants. <i>International Journal of Exergy</i> , 2012 , 10, 346	1.2	19
40	Evaluation and Optimization of Single Stage Absorption Chiller Using (LiCl + H ₂ O) as the Working Pair. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 683157	1.2	19
39	Effect of Syngas Composition on the Combustion and Emissions Characteristics of a Syngas/Diesel RCCI Engine. <i>Energies</i> , 2020 , 13, 212	3.1	18
38	Proposal and performance assessment of novel combined ORC and HDD cogeneration systems. <i>Applied Thermal Engineering</i> , 2016 , 108, 296-311	5.8	18
37	Hydrogen production with a photovoltaic thermal system enhanced by phase change materials, Shiraz, Iran case study. <i>Journal of Cleaner Production</i> , 2019 , 215, 1262-1278	10.3	16
36	Enhanced power generation through cooling a semi-transparent PV power plant with a solar chimney. <i>Energy Conversion and Management</i> , 2018 , 175, 227-235	10.6	16

35	Exergy and Exergoeconomic Analyses of a Combined Power Producing System including a Proton Exchange Membrane Fuel Cell and an Organic Rankine Cycle. <i>Sustainability</i> , 2019 , 11, 3264	3.6	15
34	Exergoeconomic Performance Comparison and Optimization of Single-Stage Absorption Heat Transformers. <i>Energies</i> , 2017 , 10, 532	3.1	15
33	Effect of reformed biogas as a low reactivity fuel on performance and emissions of a RCCI engine with reformed biogas/diesel dual-fuel combustion. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16494-16512	6.7	15
32	A comparative advanced exergy analysis for a solid oxide fuel cell using the engineering and modified hybrid methods. <i>Energy Conversion and Management</i> , 2018 , 168, 576-587	10.6	12
31	Performance analysis and exergoeconomic evaluation of a TRC system enhanced by a dedicated mechanical subcooling. <i>Energy Conversion and Management</i> , 2019 , 197, 111890	10.6	11
30	Simulation study of the combination of absorption refrigeration and ejector-expansion systems. <i>Renewable Energy</i> , 2013 , 60, 370-381	8.1	11
29	Investigation of crystallization risk in different types of absorption LiBr/H ₂ O heat transformers. <i>Thermal Science and Engineering Progress</i> , 2019 , 10, 48-58	3.6	11
28	Effects of thermophysical and thermochemical recuperation on the performance of combined gas turbine and organic rankine cycle power generation system: Thermo-economic comparison and multi-objective optimization. <i>Energy</i> , 2020 , 210, 118551	7.9	10
27	Exergoeconomic assessment of two novel absorption-ejection heat pumps for the purposes of supermarkets simultaneous heating and refrigeration using NaSCN/NH ₃ , LiNO ₃ /NH ₃ and H ₂ O/NH ₃ as working pairs. <i>International Journal of Refrigeration</i> , 2019 , 101, 178-195	3.8	9
26	Thermodynamic analysis and optimization of novel ejector-expansion TRCC (transcritical CO ₂) cascade refrigeration cycles (Novel transcritical CO ₂ cycle). <i>Energy</i> , 2011 ,	7.9	9
25	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
24	Entropy generation analysis for Couette Poiseuille flow through parallel-plates microchannel. <i>International Journal of Exergy</i> , 2009 , 6, 809	1.2	8
23	Thermodynamic analysis and optimization of a high temperature triple absorption heat transformer. <i>Scientific World Journal, The</i> , 2014 , 2014, 980452	2.2	6
22	Thermodynamic Analysis of a Combined Micro Turbine With a Micro ORC 2008 ,		6
21	Two objective optimization for a new molten carbonate fuel cell based power producing system. <i>Applied Thermal Engineering</i> , 2019 , 155, 313-330	5.8	5
20	Simulation study of a combined adsorption refrigeration system. <i>Applied Thermal Engineering</i> , 2015 , 87, 185-199	5.8	5
19	Performance characteristics of a novel ejector-expansion transcritical CO ₂ refrigeration cycle with gas cooler exergy utilisation. <i>International Journal of Exergy</i> , 2011 , 9, 210	1.2	5
18	Exergy and exergoeconomic comparison between multiple novel combined systems based on proton exchange membrane fuel cells integrated with organic Rankine cycles, and hydrogen boil-off gas subsystem. <i>Energy Conversion and Management</i> , 2021 , 244, 114532	10.6	5

17	Waste Heat Recovery From Closed Brayton Cycle Using Organic Rankine Cycle: Thermodynamic Analysis 2009 ,		4
16	Solar-driven mechanical vapor compression desalination equipped with organic Rankine cycle to supply domestic distilled water and power □ Thermodynamic and exergoeconomic implications. <i>Applied Thermal Engineering</i> , 2021 , 193, 116997	5.8	4
15	Design and analysis of an ice thermal storage system for residential air-conditioning applications. <i>International Journal of Exergy</i> , 2016 , 20, 122	1.2	3
14	Thermodynamic analyses of advanced desiccant cooling systems with various configurations. <i>International Journal of Exergy</i> , 2013 , 13, 36	1.2	3
13	Comparison Between Conventional Design and Cathode Gas Recirculation Design of a Direct-Syngas Solid Oxide Fuel Cell Gas Turbine Hybrid Systems Part I: Design Performance. <i>International Journal of Renewable Energy Development</i> , 2017 , 6, 127	1.5	2
12	Exergoeconomic and exergoenvironmental analysis and optimisation of the three configurations of CO ₂ transcritical cogeneration cycle using genetic algorithm. <i>International Journal of Exergy</i> , 2016 , 19, 395	1.2	2
11	Thermodynamic analysis of a wall mounted gas boiler with an organic Rankine cycle and hydrogen production unit. <i>Energy and Environment</i> , 2017 , 28, 725-743	2.4	2
10	A novel hybrid GAX-ejector absorption refrigeration cycle with an air-cooled absorber. <i>International Journal of Exergy</i> , 2013 , 13, 447	1.2	2
9	An experimental and theoretical study of a jet-pump refrigeration system designed using a new two-dimensional model for the entrainment region of the ejector. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2013 , 227, 486-497	1.6	1
8	Abandoned Wells and Geothermal Energy: A Survey on the Utilization of Geothermal Heat from Abandoned Wells in Energy Systems. <i>Green Energy and Technology</i> , 2022 , 337-355	0.6	1
7	Thermoeconomic analysis and multi-objective optimization of a solid-oxide fuel cell plant coupled with methane tri-reforming: Effects of thermochemical recuperation. <i>International Journal of Energy Research</i> , 2021 , 45, 10332-10354	4.5	1
6	Recovery of liquefied natural gas cold energy in a clean cogeneration system utilizing concentrated photovoltaics. <i>Journal of Cleaner Production</i> , 2022 , 350, 131517	10.3	1
5	Exergoeconomic and Exergoenvironmental Analysis and Optimization of the Cogeneration Cycle Under Dynamic Solar Radiation Model Using Two Renewable Sources. <i>Green Energy and Technology</i> , 2018 , 985-1012	0.6	
4	Second-law-based analysis of laminar slip-flow boundary layer heat transfer over a flat-plate. <i>International Journal of Exergy</i> , 2011 , 8, 392	1.2	
3	Exergetic Analysis of the Part-Flow Evaporative Gas Turbine Cycles 2005 , 351		
2	Exergy and Exergoeconomic Analysis and Optimization of the Cogeneration Cycle Under Solar Radiation Dynamic Model Using Genetic Algorithm. <i>Green Energy and Technology</i> , 2018 , 1139-1160	0.6	
1	Comparison between conventional design and cathode gas recirculation design of a direct-syngas solid oxide fuel cell gas turbine hybrid systems part II: Effect of temperature difference at the fuel cell stack. <i>International Journal of Renewable Energy Development</i> , 2018 , 7, 263-267	1.5	