Hadi Rostamzadeh

List of Publications by Year
in descending order

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69	3,500	94433	138484
papers	citations	37 h-index	58 g-index

73	73	73	1379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative study of two novel micro-CCHP systems based on organic Rankine cycle and Kalina cycle. Energy Conversion and Management, 2019, 183, 210-229.	9.2	181
2	Thermodynamic and thermoeconomic analysis and optimization of a novel combined cooling and power (CCP) cycle by integrating of ejector refrigeration and Kalina cycles. Energy, 2017, 139, 262-276.	8.8	160
3	Energy, exergy and thermoeconomic analysis of a novel combined cooling and power system using low-temperature heat source and LNG cold energy recovery. Energy Conversion and Management, 2017, 150, 678-692.	9.2	152
4	Proposal and assessment of a new geothermal-based multigeneration system for cooling, heating, power, and hydrogen production, using LNG cold energy recovery. Renewable Energy, 2019, 135, 66-87.	8.9	140
5	A novel geothermal combined cooling and power cycle based on the absorption power cycle: Energy, exergy and exergoeconomic analysis. Energy, 2018, 153, 265-277.	8.8	133
6	Performance assessment and optimization of a humidification dehumidification (HDH) system driven by absorption-compression heat pump cycle. Desalination, 2018, 447, 84-101.	8.2	122
7	Exergoeconomic optimization of a novel cascade Kalina/Kalina cycle using geothermal heat source and LNG cold energy recovery. Journal of Cleaner Production, 2018, 189, 279-296.	9.3	107
8	A novel trigeneration system using geothermal heat source and liquefied natural gas cold energy recovery: Energy, exergy and exergoeconomic analysis. Renewable Energy, 2018, 119, 513-527.	8.9	106
9	Performance assessment and optimization of a novel multi-generation system from thermodynamic and thermoeconomic viewpoints. Energy Conversion and Management, 2018, 165, 419-439.	9.2	95
10	Energy, exergy and exergoeconomic analysis of a cogeneration system for power and hydrogen production purpose based on TRR method and using low grade geothermal source. Geothermics, 2018, 71, 132-145.	3.4	89
11	Proposal and assessment of a novel geothermal combined cooling and power cycle based on Kalina and ejector refrigeration cycles. Applied Thermal Engineering, 2018, 130, 767-781.	6.0	86
12	Thermodynamic and thermoeconomic analysis of basic and modified power generation systems fueled by biogas. Energy Conversion and Management, 2019, 181, 463-475.	9.2	86
13	Assessment of a high-performance geothermal-based multigeneration system for production of power, cooling, and hydrogen: Thermodynamic and exergoeconomic evaluation. Energy Conversion and Management, 2021, 236, 113970.	9.2	86
14	A numerical approach to the heat transfer and thermal stress in a gas turbine stator blade made of HfB2. Ceramics International, 2019, 45, 24060-24069.	4.8	77
15	Aluminum nitride as an alternative ceramic for fabrication of microchannel heat exchangers: A numerical study. Ceramics International, 2020, 46, 11647-11657.	4.8	75
16	Energy and exergy analysis of novel combined cooling and power (CCP) cycles. Applied Thermal Engineering, 2017, 124, 152-169.	6.0	74
17	Exergoeconomic optimization of a new trigeneration system driven by biogas for power, cooling, and freshwater production. Energy Conversion and Management, 2020, 205, 112417.	9.2	73
18	Effects of graphite nano-flakes on thermal and microstructural properties of TiB2â€“SiC composites. Ceramics International, 2020, 46, 11622-11630.	4.8	71

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19	A novel multigeneration system driven by a hybrid biogas-geothermal heat source, Part I: Thermodynamic modeling. Energy Conversion and Management, 2018, 177, 535-562.	9.2	68
20	A novel multigeneration system driven by a hybrid biogas-geothermal heat source, Part II: Multi-criteria optimization. Energy Conversion and Management, 2019, 180, 859-888.	9.2	65
21	Energy, exergy, economic and environmental (4E) analysis of using city gate station (CGS) heater waste for power and hydrogen production: AÂcomparative study. International Journal of Hydrogen Energy, 2018, 43, 1855-1874.	7.1	60
22	Numerical modeling of heat transfer during spark plasma sintering of titanium carbide. Ceramics International, 2020, 46, 7615-7624.	4.8	59
23	Feasibility investigation of a humidification-dehumidification (HDH) desalination system with thermoelectric generator operated by a salinity-gradient solar pond. Desalination, 2019, 462, 1-18.	8.2	58
24	A new high-efficient cooling/power cogeneration system based on a double-flash geothermal power plant and a novel zeotropic bi-evaporator ejector refrigeration cycle. Renewable Energy, 2020, 162, 2126-2152.	8.9	57
25	Hydrogen extraction from a new integrated trigeneration system working with zeotropic mixture, using waste heat of a marine diesel engine. International Journal of Hydrogen Energy, 2020, 45, 21969-21994.	7.1	56
26	On the simulation of spark plasma sintered TiB2 ultra high temperature ceramics: A numerical approach. Ceramics International, 2020, 46, 14787-14795.	4.8	56
27	A new biogas-fueled bi-evaporator electricity/cooling cogeneration system: Exergoeconomic optimization. Energy Conversion and Management, 2019, 196, 1193-1207.	9.2	53
28	Proposal and multi-criteria optimization of two new combined heating and power systems for the Sabalan geothermal source. Journal of Cleaner Production, 2019, 229, 1065-1081.	9.3	52
29	Energy and exergy evaluation of a new bi-evaporator electricity/cooling cogeneration system fueled by biogas. Journal of Cleaner Production, 2019, 233, 1494-1509.	9.3	51
30	Investigating potential benefits of a salinity gradient solar pond for ejector refrigeration cycle coupled with a thermoelectric generator. Energy, 2019, 172, 675-690.	8.8	51
31	Performance enhancement of a conventional multi-effect desalination (MED) system by heat pump cycles. Desalination, 2020, 477, 114261.	8.2	51
32	Role of graphene nano-platelets on thermal conductivity and microstructure of TiB2â€“SiC ceramics. Ceramics International, 2020, 46, 21775-21783.	4.8	50
33	Energetic and exergetic analyses of modified combined power and ejector refrigeration cycles. Thermal Science and Engineering Progress, 2017, 2, 119-139.	2.7	46
34	Design and evaluation of a solar-based trigeneration system for a nearly zero energy greenhouse in arid region. Journal of Cleaner Production, 2020, 254, 119990.	9.3	43
35	Thermodynamic and thermoeconomic analysis and optimization of a novel dual-loop power/refrigeration cycle. Applied Thermal Engineering, 2018, 138, 1-17.	6.0	40
36	Exergoeconomic analysis and optimization of innovative cascade bi-evaporator electricity/cooling cycles with two adjustable cooling temperatures. Applied Thermal Engineering, 2019, 152, 890-906.	6.0	38

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37	Numerical simulation of heat transfer during spark plasma sintering of zirconium diboride. Ceramics International, 2020, 46, 4998-5007.	4.8	38
38	Novel dual-loop bi-evaporator vapor compression refrigeration cycles for freezing and air-conditioning applications. Applied Thermal Engineering, 2018, 138, 563-582.	6.0	36
39	Exergoeconomic optimisation of basic and regenerative triple-evaporator combined power and refrigeration cycles. International Journal of Exergy, 2018, 26, 186.	0.4	36
40	Thermodynamic modeling and optimization of a combined biogas steam reforming system and organic Rankine cycle for coproduction of power and hydrogen. Renewable Energy, 2019, 130, 87-102.	8.9	36
41	Heat transfer and flow characteristics of hybrid Al2O3/TiO2â€“water nanofluid in a minichannel heat sink. Heat and Mass Transfer, 2020, 56, 2757-2767.	2.1	35
42	Experimental investigation of heat transfer and pressure drop in a minichannel heat sink using Al2O3 and TiO2â€“water nanofluids. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	33
43	Thermodynamic and thermoeconomic analysis of three cascade power plants coupled with RO desalination unit, driven by a salinity-gradient solar pond. Thermal Science and Engineering Progress, 2020, 18, 100562.	2.7	33
44	Numerical assessment of beryllium oxide as an alternative material for micro heat exchangers. Ceramics International, 2020, 46, 19248-19255.	4.8	31
45	Thermo-mechanical energy level approach integrated with exergoeconomic optimization for realistic cost evaluation of a novel micro-CCHP system. Renewable Energy, 2022, 190, 630-657.	8.9	30
46	Performance comparison of two new cogeneration systems for freshwater and power production based on organic Rankine and Kalina cycles driven by salinity-gradient solar pond. Renewable Energy, 2020, 156, 748-767.	8.9	27
47	Fluid-structure interaction of blood flow around a vein valve. BioImpacts, 2020, 10, 169-175.	1.5	27
48	Performance evaluation of ejector expansion combined cooling and power cycles. Heat and Mass Transfer, 2017, 53, 2915-2931.	2.1	26
49	Exergoeconomic analysis and optimization of a new combined power and freshwater system driven by waste heat of a marine diesel engine. Thermal Science and Engineering Progress, 2020, 18, 100513.	2.7	26
50	Inherently safety design of a dual-loop bi-evaporator combined cooling and power system: 4E and safety based optimization approach. Chemical Engineering Research and Design, 2021, 154, 393-409.	5.6	22
51	A novel hybrid desiccant-based ejector cooling system for energy and carbon saving in hot and humid climates. International Journal of Refrigeration, 2019, 101, 196-210.	3.4	21
52	Thermal and exergetic performance enhancement of basic dual-loop combined cooling and power cycle driven by solar energy. Thermal Science and Engineering Progress, 2020, 18, 100556.	2.7	20
53	Performance enhancement of waste heat extraction from generator of a wind turbine for freshwater production via employing various nanofluids. Desalination, 2020, 478, 114244.	8.2	19
54	Thermo-mechanical simulation of ultrahigh temperature ceramic composites as alternative materials for gas turbine stator blades. Ceramics International, 2021, 47, 567-580.	4.8	16

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55	Close Supercritical Versus Inverse Brayton Cycles for Power Supply, Using Waste of a Biogas-Driven Open Brayton Cycle. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	16
56	Parametric study and working fluid selection of modified combined power and refrigeration cycles (MCPRCs) using low-temperature heat sources. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	14
57	Electricity and hydrogen co-production via scramjet multi-expansion open cooling cycle coupled with a PEM electrolyzer. Energy, 2020, 199, 117364.	8.8	13
58	Design and optimization of a novel dual-loop bi-evaporator ejection/compression refrigeration cycle. Applied Thermal Engineering, 2019, 151, 240-261.	6.0	12
59	A new wind turbine driven trigeneration system applicable for humid and windy areas, working with various nanofluids. Journal of Cleaner Production, 2021, 296, 126579.	9.3	12
60	Role of ejector expander in optimal inherently safety design of cascade NH3/Propane/CO2 vapor compression refrigeration systems. Chemical Engineering Research and Design, 2021, 146, 745-762.	5.6	11
61	Multi-evaporator Joule-Thomson cryogenic refrigeration cycles created by pumping and suction mechanisms. Applied Thermal Engineering, 2020, 175, 115367.	6.0	10
62	Effect of strong electric field on heat transfer enhancement in a mini channel containing Al2O3/oil nanofluid. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	10
63	Spark plasma sinterability and thermal diffusivity of TiN ceramics with graphene additive. Ceramics International, 2021, 47, 10057-10062.	4.8	9
64	Indirect mechanical heat pump assisted humidificationâ€dehumidification desalination systems. International Journal of Energy Research, 2021, 45, 15892-15920.	4.5	6
65	Finite element simulation of diskâ€shaped HfB 2 ceramics during spark plasma sintering process. International Journal of Applied Ceramic Technology, 0, , .	2.1	3
66	Combined desiccant-ejector cooling system assisted by Organic Rankine Cycle for zero-power cooling and dehumidification. Journal of Physics: Conference Series, 2019, 1343, 012099.	0.4	2
67	Seawater Desalination via Waste Heat Recovery from Generator of Wind Turbines: How Economical Is It to Use a Hybrid HDH-RO Unit?. Sustainability, 2021, 13, 7571.	3.2	2
68	Performance and Cost Optimization of Integrated Absorption Power Cycle and Liquefied Natural Gas for the Sabalan Geothermal Heat Source. , 2020, , 141-163.		0
69	Potable Water Production by Heat Recovery of Kalina Cycle, Using Solar Energy. , 2020, , 101-123.		0