

Hadi Rostamzadeh

List of Publications by Year in descending order

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69
papers

3,500
citations

94433

37
h-index

138484

58
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73
all docs

73
docs citations

73
times ranked

1379
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermo-mechanical energy level approach integrated with exergoeconomic optimization for realistic cost evaluation of a novel micro-CCHP system. <i>Renewable Energy</i> , 2022, 190, 630-657.	8.9	30
2	Role of ejector expander in optimal inherently safety design of cascade NH ₃ /Propane/CO ₂ vapor compression refrigeration systems. <i>Chemical Engineering Research and Design</i> , 2021, 146, 745-762.	5.6	11
3	Spark plasma sinterability and thermal diffusivity of TiN ceramics with graphene additive. <i>Ceramics International</i> , 2021, 47, 10057-10062.	4.8	9
4	Thermo-mechanical simulation of ultrahigh temperature ceramic composites as alternative materials for gas turbine stator blades. <i>Ceramics International</i> , 2021, 47, 567-580.	4.8	16
5	Effect of strong electric field on heat transfer enhancement in a mini channel containing Al ₂ O ₃ /oil nanofluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	1.6	10
6	Close Supercritical Versus Inverse Brayton Cycles for Power Supply, Using Waste of a Biogas-Driven Open Brayton Cycle. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2021, 143, .	2.3	16
7	A new wind turbine driven trigeneration system applicable for humid and windy areas, working with various nanofluids. <i>Journal of Cleaner Production</i> , 2021, 296, 126579.	9.3	12
8	Assessment of a high-performance geothermal-based multigeneration system for production of power, cooling, and hydrogen: Thermodynamic and exergoeconomic evaluation. <i>Energy Conversion and Management</i> , 2021, 236, 113970.	9.2	86
9	Indirect mechanical heat pump assisted humidification&dehumidification desalination systems. <i>International Journal of Energy Research</i> , 2021, 45, 15892-15920.	4.5	6
10	Seawater Desalination via Waste Heat Recovery from Generator of Wind Turbines: How Economical Is It to Use a Hybrid HDH-RO Unit?. <i>Sustainability</i> , 2021, 13, 7571.	3.2	2
11	Inherently safety design of a dual-loop bi-evaporator combined cooling and power system: 4E and safety based optimization approach. <i>Chemical Engineering Research and Design</i> , 2021, 154, 393-409.	5.6	22
12	Numerical simulation of heat transfer during spark plasma sintering of zirconium diboride. <i>Ceramics International</i> , 2020, 46, 4998-5007.	4.8	38
13	Design and evaluation of a solar-based trigeneration system for a nearly zero energy greenhouse in arid region. <i>Journal of Cleaner Production</i> , 2020, 254, 119990.	9.3	43
14	Performance enhancement of a conventional multi-effect desalination (MED) system by heat pump cycles. <i>Desalination</i> , 2020, 477, 114261.	8.2	51
15	Exergoeconomic optimization of a new trigeneration system driven by biogas for power, cooling, and freshwater production. <i>Energy Conversion and Management</i> , 2020, 205, 112417.	9.2	73
16	Numerical modeling of heat transfer during spark plasma sintering of titanium carbide. <i>Ceramics International</i> , 2020, 46, 7615-7624.	4.8	59
17	Performance enhancement of waste heat extraction from generator of a wind turbine for freshwater production via employing various nanofluids. <i>Desalination</i> , 2020, 478, 114244.	8.2	19
18	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. <i>Renewable Energy</i> , 2020, 162, 2126-2152.	8.9	57

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19	Hydrogen extraction from a new integrated trigeneration system working with zeotropic mixture, using waste heat of a marine diesel engine. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21969-21994.	7.1	56
20	Experimental investigation of heat transfer and pressure drop in a minichannel heat sink using Al ₂ O ₃ and TiO ₂ water nanofluids. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	33
21	Role of graphene nano-platelets on thermal conductivity and microstructure of TiB ₂ -SiC ceramics. <i>Ceramics International</i> , 2020, 46, 21775-21783.	4.8	50
22	Thermodynamic and thermoeconomic analysis of three cascade power plants coupled with RO desalination unit, driven by a salinity-gradient solar pond. <i>Thermal Science and Engineering Progress</i> , 2020, 18, 100562.	2.7	33
23	Numerical assessment of beryllium oxide as an alternative material for micro heat exchangers. <i>Ceramics International</i> , 2020, 46, 19248-19255.	4.8	31
24	Heat transfer and flow characteristics of hybrid Al ₂ O ₃ /TiO ₂ water nanofluid in a minichannel heat sink. <i>Heat and Mass Transfer</i> , 2020, 56, 2757-2767.	2.1	35
25	Electricity and hydrogen co-production via scramjet multi-expansion open cooling cycle coupled with a PEM electrolyzer. <i>Energy</i> , 2020, 199, 117364.	8.8	13
26	Exergoeconomic analysis and optimization of a new combined power and freshwater system driven by waste heat of a marine diesel engine. <i>Thermal Science and Engineering Progress</i> , 2020, 18, 100513.	2.7	26
27	On the simulation of spark plasma sintered TiB ₂ ultra high temperature ceramics: A numerical approach. <i>Ceramics International</i> , 2020, 46, 14787-14795.	4.8	56
28	Aluminum nitride as an alternative ceramic for fabrication of microchannel heat exchangers: A numerical study. <i>Ceramics International</i> , 2020, 46, 11647-11657.	4.8	75
29	Effects of graphite nano-flakes on thermal and microstructural properties of TiB ₂ -SiC composites. <i>Ceramics International</i> , 2020, 46, 11622-11630.	4.8	71
30	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. <i>Renewable Energy</i> , 2020, 156, 748-767.	8.9	27
31	Thermal and exergetic performance enhancement of basic dual-loop combined cooling and power cycle driven by solar energy. <i>Thermal Science and Engineering Progress</i> , 2020, 18, 100556.	2.7	20
32	Multi-evaporator Joule-Thomson cryogenic refrigeration cycles created by pumping and suction mechanisms. <i>Applied Thermal Engineering</i> , 2020, 175, 115367.	6.0	10
33	Fluid-structure interaction of blood flow around a vein valve. <i>BiolImpacts</i> , 2020, 10, 169-175.	1.5	27
34	Performance and Cost Optimization of Integrated Absorption Power Cycle and Liquefied Natural Gas for the Sabalan Geothermal Heat Source. , 2020, , 141-163.		0
35	Potable Water Production by Heat Recovery of Kalina Cycle, Using Solar Energy. , 2020, , 101-123.		0
36	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.	8.9	36

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37	A new biogas-fueled bi-evaporator electricity/cooling cogeneration system: Exergoeconomic optimization. <i>Energy Conversion and Management</i> , 2019, 196, 1193-1207.	9.2	53
38	A numerical approach to the heat transfer and thermal stress in a gas turbine stator blade made of HfB ₂ . <i>Ceramics International</i> , 2019, 45, 24060-24069.	4.8	77
39	Comparative study of two novel micro-CCHP systems based on organic Rankine cycle and Kalina cycle. <i>Energy Conversion and Management</i> , 2019, 183, 210-229.	9.2	181
40	Energy and exergy evaluation of a new bi-evaporator electricity/cooling cogeneration system fueled by biogas. <i>Journal of Cleaner Production</i> , 2019, 233, 1494-1509.	9.3	51
41	Proposal and multi-criteria optimization of two new combined heating and power systems for the Sabalan geothermal source. <i>Journal of Cleaner Production</i> , 2019, 229, 1065-1081.	9.3	52
42	A novel hybrid desiccant-based ejector cooling system for energy and carbon saving in hot and humid climates. <i>International Journal of Refrigeration</i> , 2019, 101, 196-210.	3.4	21
43	Feasibility investigation of a humidification-dehumidification (HDH) desalination system with thermoelectric generator operated by a salinity-gradient solar pond. <i>Desalination</i> , 2019, 462, 1-18.	8.2	58
44	Exergoeconomic analysis and optimization of innovative cascade bi-evaporator electricity/cooling cycles with two adjustable cooling temperatures. <i>Applied Thermal Engineering</i> , 2019, 152, 890-906.	6.0	38
45	Design and optimization of a novel dual-loop bi-evaporator ejection/compression refrigeration cycle. <i>Applied Thermal Engineering</i> , 2019, 151, 240-261.	6.0	12
46	Investigating potential benefits of a salinity gradient solar pond for ejector refrigeration cycle coupled with a thermoelectric generator. <i>Energy</i> , 2019, 172, 675-690.	8.8	51
47	Combined desiccant-ejector cooling system assisted by Organic Rankine Cycle for zero-power cooling and dehumidification. <i>Journal of Physics: Conference Series</i> , 2019, 1343, 012099.	0.4	2
48	Thermodynamic and thermoeconomic analysis of basic and modified power generation systems fueled by biogas. <i>Energy Conversion and Management</i> , 2019, 181, 463-475.	9.2	86
49	A novel multigeneration system driven by a hybrid biogas-geothermal heat source, Part II: Multi-criteria optimization. <i>Energy Conversion and Management</i> , 2019, 180, 859-888.	9.2	65
50	Proposal and assessment of a new geothermal-based multigeneration system for cooling, heating, power, and hydrogen production, using LNG cold energy recovery. <i>Renewable Energy</i> , 2019, 135, 66-87.	8.9	140
51	Novel dual-loop bi-evaporator vapor compression refrigeration cycles for freezing and air-conditioning applications. <i>Applied Thermal Engineering</i> , 2018, 138, 563-582.	6.0	36
52	Thermodynamic and thermoeconomic analysis and optimization of a novel dual-loop power/refrigeration cycle. <i>Applied Thermal Engineering</i> , 2018, 138, 1-17.	6.0	40
53	Exergoeconomic optimization of a novel cascade Kalina/Kalina cycle using geothermal heat source and LNG cold energy recovery. <i>Journal of Cleaner Production</i> , 2018, 189, 279-296.	9.3	107
54	A novel geothermal combined cooling and power cycle based on the absorption power cycle: Energy, exergy and exergoeconomic analysis. <i>Energy</i> , 2018, 153, 265-277.	8.8	133

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55	Parametric study and working fluid selection of modified combined power and refrigeration cycles (MCPRCs) using low-temperature heat sources. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	14
56	Performance assessment and optimization of a novel multi-generation system from thermodynamic and thermoeconomic viewpoints. <i>Energy Conversion and Management</i> , 2018, 165, 419-439.	9.2	95
57	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. <i>Geothermics</i> , 2018, 71, 132-145.	3.4	89
58	Energy, exergy, economic and environmental (4E) analysis of using city gate station (CGS) heater waste for power and hydrogen production: A comparative study. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1855-1874.	7.1	60
59	Proposal and assessment of a novel geothermal combined cooling and power cycle based on Kalina and ejector refrigeration cycles. <i>Applied Thermal Engineering</i> , 2018, 130, 767-781.	6.0	86
60	A novel multigeneration system driven by a hybrid biogas-geothermal heat source, Part I: Thermodynamic modeling. <i>Energy Conversion and Management</i> , 2018, 177, 535-562.	9.2	68
61	Performance assessment and optimization of a humidification dehumidification (HDH) system driven by absorption-compression heat pump cycle. <i>Desalination</i> , 2018, 447, 84-101.	8.2	122
62	Exergoeconomic optimisation of basic and regenerative triple-evaporator combined power and refrigeration cycles. <i>International Journal of Exergy</i> , 2018, 26, 186.	0.4	36
63	A novel trigeneration system using geothermal heat source and liquefied natural gas cold energy recovery: Energy, exergy and exergoeconomic analysis. <i>Renewable Energy</i> , 2018, 119, 513-527.	8.9	106
64	Energetic and exergetic analyses of modified combined power and ejector refrigeration cycles. <i>Thermal Science and Engineering Progress</i> , 2017, 2, 119-139.	2.7	46
65	Energy and exergy analysis of novel combined cooling and power (CCP) cycles. <i>Applied Thermal Engineering</i> , 2017, 124, 152-169.	6.0	74
66	Performance evaluation of ejector expansion combined cooling and power cycles. <i>Heat and Mass Transfer</i> , 2017, 53, 2915-2931.	2.1	26
67	Energy, exergy and thermoeconomic analysis of a novel combined cooling and power system using low-temperature heat source and LNG cold energy recovery. <i>Energy Conversion and Management</i> , 2017, 150, 678-692.	9.2	152
68	Thermodynamic and thermoeconomic analysis and optimization of a novel combined cooling and power (CCP) cycle by integrating of ejector refrigeration and Kalina cycles. <i>Energy</i> , 2017, 139, 262-276.	8.8	160
69	Finite element simulation of disk-shaped HfB ₂ ceramics during spark plasma sintering process. <i>International Journal of Applied Ceramic Technology</i> , 0, , .	2.1	3