

Mehdi Mehrpooya

List of Publications by Year in descending order

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Version: 2024-02-01

218
papers

10,585
citations

21215

62
h-index

58552

86
g-index

220
all docs

220
docs citations

220
times ranked

5048
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a novel hybrid SOFC/GT system and transcritical CO ₂ cycle for CCHP purpose in the district scale. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 489-507.	2.0	15
2	Sensitivity analysis and optimization of geometric and operational parameters in a thermochemical heat storage redox reactor used for concentrated solar power plants. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6415-6435.	2.0	5
3	Heat transfer and economic analyses of using various nanofluids in shell and tube heat exchangers for the cogeneration and solar-driven organic Rankine cycle systems. <i>International Journal of Low-Carbon Technologies</i> , 2022, 17, 11-22.	1.2	11
4	Advanced exergy analysis of the natural gas liquid recovery process. <i>Thermal Science</i> , 2022, 26, 2287-2300.	0.5	2
5	A novel hybrid process for production of cyclohexanone oxime and high temperature hydrogen production using solar energy. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101817.	1.7	1
6	Proposal and investigation of a novel hybrid hydrogen production and liquefaction process using solid oxide electrolyzer, solar energy, and thermoelectric generator. <i>Journal of Cleaner Production</i> , 2022, 331, 130001.	4.6	36
7	Thermally regenerative electrochemical refrigerators decision-making process and multi-objective optimization. <i>Energy Conversion and Management</i> , 2022, 252, 115060.	4.4	8
8	Proposal and investigation of a novel process configuration for production of neon from cryogenic air separation unit. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101875.	1.7	4
9	Investigation of an electrochemical conversion of carbon dioxide to ethanol and solid oxide fuel cell, gas turbine hybrid process. <i>Renewable Energy</i> , 2022, 184, 1112-1129.	4.3	8
10	Hydrogen production by thermochemical water splitting cycle using low-grade solar heat and phase change material energy storage system. <i>International Journal of Energy Research</i> , 2022, 46, 7590-7609.	2.2	9
11	Development and life cycle assessment of a novel solar-based cogeneration configuration comprised of diffusion-absorption refrigeration and organic Rankine cycle in remote areas. <i>Chemical Engineering Research and Design</i> , 2022, 159, 1019-1038.	2.7	59
12	Proposal of a Facile Method to Fabricate a Multi-Dope Multiwall Carbon Nanotube as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. <i>Sustainability</i> , 2022, 14, 965.	1.6	7
13	Techno-economic assessment of a novel power-to-liquid system for synthesis of formic acid and ammonia, based on CO ₂ electroreduction and alkaline water electrolysis cells. <i>Renewable Energy</i> , 2022, 187, 1224-1240.	4.3	14
14	A natural gas-based eco-friendly polygeneration system including gas turbine, sorption-enhanced steam methane reforming, absorption chiller and flue gas CO ₂ capture unit. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 101984.	1.7	3
15	Geometric optimization of thermo-hydraulic performance of multistream plate fin heat exchangers in two-stage condensation cycle: Thermodynamic and operating cost analyses. <i>Chemical Engineering Research and Design</i> , 2022, 162, 631-648.	2.7	16
16	4E assessment and 3D parametric analysis of an innovative liquefied natural gas production process assisted by a diffusion-absorption refrigeration unit. <i>Chemical Papers</i> , 2022, 76, 5231-5252.	1.0	10
17	Conceptual design and performance evaluation of a novel cryogenic integrated process for extraction of neon and production of liquid hydrogen. <i>Chemical Engineering Research and Design</i> , 2022, 164, 228-246.	2.7	13
18	Investigation of an integrated thermochemical hydrogen production and high temperature solar thermochemical energy storage and CO ₂ capture process. <i>Applied Thermal Engineering</i> , 2022, 214, 118820.	3.0	21

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19	Proposal and investigation of a novel small-scale natural gas liquefaction process using diffusion absorption refrigeration technology. <i>Chemical Papers</i> , 2022, 76, 5901-5927.	1.0	3
20	High-temperature hydrogen production by solar thermochemical reactors, metal interfaces, and nanofluid cooling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2547-2569.	2.0	9
21	Life-cycle assessment (LCA) and techno-economic analysis of a biomass-based biorefinery. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1053-1073.	2.0	9
22	A novel integrated structure for hydrogen purification using the cryogenic method. <i>Journal of Cleaner Production</i> , 2021, 278, 123872.	4.6	61
23	Fabrication of copper centered metal organic framework and nitrogen, sulfur dual doped graphene oxide composite as a novel electrocatalyst for oxygen reduction reaction. <i>Energy</i> , 2021, 214, 119053.	4.5	40
24	A novel integrated Ca-Cu cycle with coal/biomass gasification unit for clean hydrogen production. <i>Energy Conversion and Management</i> , 2021, 228, 113682.	4.4	19
25	Desalinated water and hydrogen generation from seawater via a desalination unit and a low temperature electrolysis using a novel solar-based setup. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7211-7229.	3.8	102
26	Parametric design and performance evaluation of a novel solar assisted thermionic generator and thermoelectric device hybrid system. <i>Renewable Energy</i> , 2021, 164, 194-210.	4.3	59
27	A novel exergy-based assessment on a multi-production plant of power, heat and hydrogen: integration of solid oxide fuel cell, solid oxide electrolyzer cell and Rankine steam cycle. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 798-813.	1.2	7
28	Integrated thermochemical Mg-Cl-Na hydrogen production cycle, carbon dioxide capture, ammonia production, and methanation. <i>International Journal of Energy Research</i> , 2021, 45, 10719-10737.	2.2	19
29	A renewable approach to capture CO ₂ in Iran: thermodynamic and exergy analyses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1255-1281.	2.0	2
30	Investigation of a new energy-efficient cryogenic process configuration for helium extraction and liquefaction. <i>International Journal of Energy Research</i> , 2021, 45, 10355-10377.	2.2	9
31	An integrated process configuration of solid oxide fuel/electrolyzer cells (SOFC/SOEC) and solar organic Rankine cycle (ORC) for cogeneration applications. <i>International Journal of Energy Research</i> , 2021, 45, 11018-11040.	2.2	16
32	A novel hybrid liquefied natural gas process with absorption refrigeration integrated with molten carbonate fuel cell. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 956-976.	1.2	24
33	Investigation of a hybrid thermochemical Cu-Cl cycle, carbon capturing, and ammonia production process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1907-1923.	2.0	8
34	Cold thermal energy storage by encapsulated phase change materials system using hybrid nanofluids as the heat transfer fluid. <i>International Journal of Energy Research</i> , 2021, 45, 15265-15283.	2.2	9
35	Investigation of hydrogen production by sulfur iodine thermochemical water splitting cycle using renewable energy source. <i>International Journal of Energy Research</i> , 2021, 45, 14845-14869.	2.2	19
36	Numerical investigation of a new combined energy system includes parabolic dish solar collector, Stirling engine and thermoelectric device. <i>International Journal of Energy Research</i> , 2021, 45, 16436-16455.	2.2	181

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37	Design and development of an innovative integrated structure for the production and storage of energy and hydrogen utilizing renewable energy. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101123.	1.7	6
38	Design and financial parametric assessment and optimization of a novel solar-driven freshwater and hydrogen cogeneration system with thermal energy storage. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101096.	1.7	34
39	A new decision-making process by integration of exergy analysis and techno-economic optimization tool for the evaluation of hybrid renewable systems. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101196.	1.7	13
40	Life cycle assessment and exergoeconomic analysis of the multi-generation system based on fuel cell for methanol, power, and heat production. <i>Renewable Energy</i> , 2021, 172, 1314-1332.	4.3	63
41	A novel Gamma-type duplex Stirling system to convert heat energy to cooling power: Theoretical and experimental study. <i>International Journal of Energy Research</i> , 2021, 45, 20430-20447.	2.2	4
42	An integrated structure of bio-methane/bio-methanol cogeneration composed of biogas upgrading process and alkaline electrolysis unit coupled with parabolic trough solar collectors system. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101304.	1.7	6
43	Synthesis of three-metal layered double hydroxide and dual doped graphene oxide composite as a novel electrocatalyst for oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160047.	2.8	24
44	Conceptual design and evaluation of an innovative hydrogen purification process applying diffusion-absorption refrigeration cycle (Exergoeconomic and exergy analyses). <i>Journal of Cleaner Production</i> , 2021, 316, 128271.	4.6	39
45	Thermodynamic assessments of a novel integrated process for producing liquid helium and hydrogen simultaneously. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37939-37964.	3.8	14
46	A critical review of power generation using geothermal-driven organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101028.	1.3	28
47	Thermodynamic and exergy evaluation of a novel integrated structure for generation and store of power and refrigeration using ammonia-water mixture CCHP cycle and energy storage systems. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101329.	1.7	5
48	A novel integrated structure of hydrogen purification and liquefaction using natural gas steam reforming, organic Rankine cycle and photovoltaic panels. <i>Cryogenics</i> , 2021, 119, 103352.	0.9	12
49	Integrated Mg-Cl hydrogen production process and CaO/CaCO ₃ -CaCl ₂ thermochemical energy storage phase change system using solar tower system. <i>Energy Conversion and Management</i> , 2021, 245, 114555.	4.4	20
50	Investigation of a hybrid solar thermochemical water-splitting hydrogen production cycle and coal-fueled molten carbonate fuel cell power plant. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101458.	1.7	11
51	Dynamic modeling and analysis of transient behavior of an integrated parabolic solar dish collector and thermochemical energy storage power plant. <i>Journal of Energy Storage</i> , 2021, 42, 103121.	3.9	14
52	A novel design of hybrid high-temperature solar receiver and thermochemical energy storage system. <i>Energy Conversion and Management</i> , 2021, 250, 114911.	4.4	3
53	Performance analysis of an integrated pumped-hydro and compressed-air energy storage system and solar organic Rankine cycle. <i>Journal of Energy Storage</i> , 2021, 44, 103488.	3.9	46
54	Introducing a hybrid renewable energy system for production of power and fresh water using parabolic trough solar collectors and LNG cold energy recovery. <i>Renewable Energy</i> , 2020, 148, 1227-1243.	4.3	90

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55	A comprehensive exergy-based evaluation on cascade absorption-compression refrigeration system for low temperature applications - exergy, exergoeconomic, and exergoenvironmental assessments. Journal of Cleaner Production, 2020, 246, 119005.	4.6	80
56	Biodiesel production integrated with glycerol steam reforming process, solid oxide fuel cell (SOFC) power plant. Energy Conversion and Management, 2020, 206, 112467.	4.4	45
57	Concentrated solar energy system and cold thermal energy storage (process development and energy) Tj ETQq1 1 0,784314 rgBT /Ove	1.7	18
58	A novel integrated hydrogen and natural gas liquefaction process using two multistage mixed refrigerant refrigeration systems. International Journal of Energy Research, 2020, 44, 1636-1653.	2.2	27
59	Solar fuel production by developing an integrated biodiesel production process and solar thermal energy system. Applied Thermal Engineering, 2020, 167, 114701.	3.0	34
60	Process development of a solar-assisted multi-production plant: Power, cooling, and hydrogen. International Journal of Hydrogen Energy, 2020, 45, 30056-30079.	3.8	34
61	Hydrogen production using solid oxide electrolyzer integrated with linear Fresnel collector, Rankine cycle and thermochemical energy storage tank. Energy Conversion and Management, 2020, 224, 113359.	4.4	32
62	A review on hydrogen production thermochemical water-splitting cycles. Journal of Cleaner Production, 2020, 275, 123836.	4.6	103
63	Developing an integrated structure for simultaneous generation of power and liquid CO2 using parabolic solar collectors, solid oxide fuel cell, and post-combustion CO2 separation unit. Applied Thermal Engineering, 2020, 179, 115687.	3.0	19
64	Optimal design of molten carbonate fuel cell combined cycle power plant and thermophotovoltaic system. Energy Conversion and Management, 2020, 221, 113177.	4.4	22
65	Novel integrated structure of carbon dioxide liquefaction energy storage system using solar energy. Journal of Energy Storage, 2020, 31, 101641.	3.9	11
66	Fabrication of nano-platinum alloy electrocatalysts and their performance in a micro-direct methanol fuel cell. European Physical Journal Plus, 2020, 135, 1.	1.2	8
67	Thermally integrated five-step ZnSI thermochemical cycle hydrogen production process using solar energy. Energy Conversion and Management, 2020, 222, 113243.	4.4	18
68	Nitrogen and sulfur doped ZnAl layered double hydroxide/reduced graphene oxide as an efficient nanoelectrocatalyst for oxygen reduction reactions. International Journal of Hydrogen Energy, 2020, 45, 27129-27144.	3.8	26
69	Cryogenic biogas upgrading process using solar energy (process integration, development, and energy) Tj ETQq1 1 0,784314 rgBT /Ove	4.5	35
70	Proposal and assessment of a new integrated liquefied natural gas generation process with auto " Cascade refrigeration (exergy and economic analyses). Sustainable Energy Technologies and Assessments, 2020, 40, 100728.	1.7	18
71	Novel cryogenic argon recovery from the air separation unit integrated with LNG regasification and CO2 transcritical power cycle. Sustainable Energy Technologies and Assessments, 2020, 40, 100767.	1.7	13
72	Thermo-economic analysis of a solar-driven multi-stage desalination unit equipped with a phase change material storage system to provide heating and fresh water for a residential complex. Journal of Energy Storage, 2020, 30, 101555.	3.9	18

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73	Conversion and storage of solar energy in the forms of liquid fuel and electricity in a hybrid energy storage system using methanol and phase change materials. <i>Energy Conversion and Management</i> , 2020, 209, 112669.	4.4	32
74	Energy and exergy analysis of wind farm integrated with compressed air energy storage using multi-stage phase change material. <i>Journal of Cleaner Production</i> , 2020, 259, 120906.	4.6	62
75	Simulation, equipment performance evaluation and sensitivity analysis as a comprehensive parametric study of sulfur recovery unit. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2427.	0.8	4
76	Hybrid solar liquefied natural gas, post combustion carbon dioxide capture and liquefaction. <i>Energy Conversion and Management</i> , 2020, 207, 112512.	4.4	22
77	Introducing a hybrid mechanical “ Chemical energy storage system: Process development and energy/exergy analysis. <i>Energy Conversion and Management</i> , 2020, 211, 112784.	4.4	25
78	Basic design and thermodynamic analysis of a high helium content natural gas-fuel cell power plant. <i>Journal of Cleaner Production</i> , 2020, 262, 121401.	4.6	9
79	Novel integrated helium extraction and natural gas liquefaction process configurations using absorption refrigeration and waste heat. <i>International Journal of Energy Research</i> , 2020, 44, 6430-6451.	2.2	18
80	Comparison of different CO ₂ liquefaction processes and exergoeconomic evaluation of integrated CO ₂ liquefaction and absorption refrigeration system. <i>Energy Conversion and Management</i> , 2020, 211, 112752.	4.4	30
81	Comparison of the biogas upgrading methods as a transportation fuel. <i>Renewable Energy</i> , 2019, 130, 641-655.	4.3	54
82	Energy analysis and economic evaluation of a new developed integrated process configuration to produce power, hydrogen, and heat. <i>Journal of Cleaner Production</i> , 2019, 239, 118042.	4.6	30
83	Introducing, evaluation and exergetic performance assessment of a novel hybrid system composed of MCFC, methanol synthesis process, and a combined power cycle. <i>Energy Conversion and Management</i> , 2019, 197, 111878.	4.4	61
84	Technical performance analysis of a combined cooling heating and power (CCHP) system based on solid oxide fuel cell (SOFC) technology “ A building application. <i>Energy Conversion and Management</i> , 2019, 198, 111767.	4.4	96
85	Chemical looping technology in CHP (combined heat and power) and CCHP (combined cooling heating) Tj ETQq1 1.0.784314 rgBT /C 5.1 55		
86	Introducing an integrated SOFC, linear Fresnel solar field, Stirling engine and steam turbine combined cooling, heating and power process. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30256-30279.	3.8	91
87	Energy assessment of coal-fired steam power plant, carbon capture, and carbon liquefaction process chain as a whole. <i>Energy Conversion and Management</i> , 2019, 199, 111994.	4.4	22
88	Thermo-economic assessment and retrofitting of an existing electrical power plant with solar energy under different operational modes and part load conditions. <i>Energy Reports</i> , 2019, 5, 1137-1150.	2.5	32
89	Introducing and investigation of a combined molten carbonate fuel cell, thermoelectric generator, linear fresnel solar reflector and power turbine combined heating and power process. <i>Journal of Cleaner Production</i> , 2019, 240, 118247.	4.6	104
90	Introducing a hybrid photovoltaic solar, proton exchange membrane fuel cell and thermoelectric device system. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 36, 100550.	1.7	26

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91	Hydrogen liquefaction process using solar energy and organic Rankine cycle power system. <i>Journal of Cleaner Production</i> , 2019, 235, 1465-1482.	4.6	64
92	A 3E evaluation on the interaction between environmental impacts and costs in a hydrogen liquefier combined with absorption refrigeration systems. <i>Applied Thermal Engineering</i> , 2019, 159, 113798.	3.0	36
93	Hybrid solar parabolic dish power plant and high-temperature phase change material energy storage system. <i>International Journal of Energy Research</i> , 2019, 43, 5405-5420.	2.2	31
94	A novel sensitivity analysis of a new integrated helium extraction process through the interaction of costs and environmental impacts. <i>Applied Thermal Engineering</i> , 2019, 159, 113787.	3.0	14
95	Development of a new integrated structure for simultaneous generation of power and liquid carbon dioxide using solar dish collectors. <i>Energy</i> , 2019, 179, 938-959.	4.5	41
96	Hybrid molten carbonate fuel cell power plant and multiple-effect desalination system. <i>Journal of Cleaner Production</i> , 2019, 220, 1039-1051.	4.6	80
97	Introducing a hybrid photovoltaic-thermal collector, ejector refrigeration cycle and phase change material storage energy system (Energy, exergy and economic analysis). <i>International Journal of Refrigeration</i> , 2019, 103, 61-76.	1.8	33
98	Energy, exergy, exergoeconomic and sensitivity analyses of modified Claus process in a gas refinery sulfur recovery unit. <i>Journal of Cleaner Production</i> , 2019, 220, 1071-1087.	4.6	54
99	Developing and exergetic performance assessment of biogas upgrading process driven by flat plate solar collectors coupled with Kalina power cycle. <i>Energy Conversion and Management</i> , 2019, 181, 398-413.	4.4	37
100	A novel MCFC hybrid power generation process using solar parabolic dish thermal energy. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8548-8565.	3.8	32
101	An exergy-based investigation on hydrogen liquefaction plant-exergy, exergoeconomic, and exergoenvironmental analyses. <i>Journal of Cleaner Production</i> , 2019, 210, 530-541.	4.6	82
102	A hybrid molten carbonate fuel cell and parabolic trough solar collector, combined heating and power plant with carbon dioxide capturing process. <i>Energy Conversion and Management</i> , 2019, 183, 193-209.	4.4	97
103	Evaluation of an optimal integrated design multi-fuel multi-product electrical power plant by energy and exergy analyses. <i>Energy</i> , 2019, 169, 61-78.	4.5	30
104	Thermodynamic and economic analyses of hydrogen production system using high temperature solid oxide electrolyzer integrated with parabolic trough collector. <i>Journal of Cleaner Production</i> , 2019, 212, 713-726.	4.6	48
105	Process development and thermodynamic analysis of a novel power generation plant driven by geothermal energy with liquefied natural gas as its heat sink. <i>Applied Thermal Engineering</i> , 2018, 133, 645-658.	3.0	37
106	Conventional and advanced exergoeconomic assessments of a new air separation unit integrated with a carbon dioxide electrical power cycle and a liquefied natural gas regasification unit. <i>Energy Conversion and Management</i> , 2018, 163, 151-168.	4.4	37
107	Exergy-Based Performance Assessment of Biogas Plants: Application of Advanced Exergy and Exergoeconomic Analyses for Evaluating Biogas Upgrading Process. <i>Biofuel and Biorefinery Technologies</i> , 2018, , 355-386.	0.1	3
108	Investigation of a new integrated biofuel production process via fast pyrolysis, co-gasification and hydrougrading. <i>Energy Conversion and Management</i> , 2018, 161, 35-52.	4.4	20

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109	A comprehensive approach toward utilizing mixed refrigerant and absorption refrigeration systems in an integrated cryogenic refrigeration process. <i>Journal of Cleaner Production</i> , 2018, 179, 495-514.	4.6	46
110	Advanced exergoeconomic evaluation of a new cryogenic helium recovery process from natural gas based on the flash separation " APCI modified process. <i>Applied Thermal Engineering</i> , 2018, 132, 368-380.	3.0	28
111	Thermodynamic assessment of an integrated biomass and coal co-gasification, cryogenic air separation unit with power generation cycles based on LNG vaporization. <i>Energy Conversion and Management</i> , 2018, 157, 438-451.	4.4	56
112	Optical and thermal analysis of a parabolic trough solar collector for production of thermal energy in different climates in Iran with comparison between the conventional nanofluids. <i>Journal of Cleaner Production</i> , 2018, 175, 294-313.	4.6	138
113	A novel energy efficient LNG/NGL recovery process using absorption and mixed refrigerant refrigeration cycles " Economic and exergy analyses. <i>Applied Thermal Engineering</i> , 2018, 132, 283-295.	3.0	86
114	Modeling of a single cell micro proton exchange membrane fuel cell by a new hybrid neural network method. <i>Thermal Science and Engineering Progress</i> , 2018, 7, 8-19.	1.3	21
115	Investigation of a combined molten carbonate fuel cell, gas turbine and Stirling engine combined cooling heating and power (CCHP) process by exergy cost sensitivity analysis. <i>Energy Conversion and Management</i> , 2018, 165, 291-303.	4.4	45
116	Applying an integrated trigeneration incorporating hybrid energy systems for natural gas liquefaction. <i>Energy</i> , 2018, 149, 848-864.	4.5	45
117	Developing a tri-generation system of power, heating, and freshwater (for an industrial town) by using solar flat plate collectors, multi-stage desalination unit, and Kalina power generation cycle. <i>Energy Conversion and Management</i> , 2018, 165, 113-126.	4.4	93
118	Improving energy efficiency in a complex natural gas refinery using combined pinch and advanced exergy analyses. <i>Applied Thermal Engineering</i> , 2018, 137, 341-355.	3.0	38
119	Investigation of a novel integrated process configuration for natural gas liquefaction and nitrogen removal by advanced exergoeconomic analysis. <i>Applied Thermal Engineering</i> , 2018, 128, 1249-1262.	3.0	37
120	Trans-esterification of waste cooking oil with methanol by electrolysis process using KOH. <i>Renewable Energy</i> , 2018, 116, 183-193.	4.3	40
121	Large-scale liquid hydrogen production methods and approaches: A review. <i>Applied Energy</i> , 2018, 212, 57-83.	5.1	210
122	Techno-economic-environmental study of hybrid power supply system: A case study in Iran. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 25, 1-10.	1.7	72
123	Cost and economic potential analysis of a cascading power cycle with liquefied natural gas regasification. <i>Energy Conversion and Management</i> , 2018, 156, 68-83.	4.4	43
124	Integrated power generation cycle (Kalina cycle) with auxiliary heater and PCM energy storage. <i>Energy Conversion and Management</i> , 2018, 177, 453-467.	4.4	52
125	Advanced exergoeconomic assessment of a solar-driven Kalina cycle. <i>Energy Conversion and Management</i> , 2018, 178, 78-91.	4.4	75
126	Introducing a hybrid oxy-fuel power generation and natural gas/ carbon dioxide liquefaction process with thermodynamic and economic analysis. <i>Journal of Cleaner Production</i> , 2018, 204, 1016-1033.	4.6	32

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127	Design and optimization of a combined solar thermophotovoltaic power generation and solid oxide electrolyser for hydrogen production. <i>Energy Conversion and Management</i> , 2018, 176, 274-286.	4.4	57
128	Conceptual design and analysis of a novel process for hydrogen liquefaction assisted by absorption precooling system. <i>Journal of Cleaner Production</i> , 2018, 205, 565-588.	4.6	54
129	Thermodynamic analysis of integrated LNG regasification process configurations. <i>Progress in Energy and Combustion Science</i> , 2018, 69, 1-27.	15.8	53
130	Thermodynamic and economic evaluation of a novel concentrated solar power system integrated with absorption refrigeration and desalination cycles. <i>Energy Conversion and Management</i> , 2018, 175, 337-356.	4.4	104
131	Techno-economic analysis of hydrogen production by solid oxide electrolyzer coupled with dish collector. <i>Energy Conversion and Management</i> , 2018, 173, 167-178.	4.4	69
132	Investigation of a combined cycle power plant coupled with a parabolic trough solar field and high temperature energy storage system. <i>Energy Conversion and Management</i> , 2018, 171, 1662-1674.	4.4	35
133	Process development and sensitivity analysis of novel integrated helium recovery from natural gas processes. <i>Energy</i> , 2018, 154, 52-67.	4.5	12
134	Energy and Exergy Analyses of a Solid Oxide Fuel Cell-Gas Turbine-Organic Rankine Cycle Power Plant with Liquefied Natural Gas as Heat Sink. <i>Entropy</i> , 2018, 20, 484.	1.1	51
135	Model development and energy and exergy analysis of the biomass gasification process (Based on the) <i>Tj ETQq1 1 0.784314 rgBT /Ov</i>	8.2	108
136	A comprehensive review on coupling different types of electrolyzer to renewable energy sources. <i>Energy</i> , 2018, 158, 632-655.	4.5	181
137	Latent and sensible heat analysis of PCM incorporated in a brick for cold and hot climatic conditions, utilizing computational fluid dynamics. <i>Energy</i> , 2018, 159, 160-171.	4.5	50
138	Structural, operational and economic optimization of cryogenic natural gas plant using NSGAI two-objective genetic algorithm. <i>Energy</i> , 2018, 159, 410-428.	4.5	46
139	Investigation of a hybrid water desalination, oxy-fuel power generation and CO ₂ liquefaction process. <i>Energy</i> , 2018, 158, 1105-1119.	4.5	34
140	A novel process configuration for hydrocarbon recovery process with auto-refrigeration system. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 42, 262-270.	2.1	21
141	Exergoeconomic analysis of integrated natural gas liquids (NGL) and liquefied natural gas (LNG) processes. <i>Applied Thermal Engineering</i> , 2017, 113, 1483-1495.	3.0	44
142	Design of an integrated process for simultaneous chemical looping hydrogen production and electricity generation with CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8486-8496.	3.8	64
143	Advanced exergy and exergoeconomic analyses of a hydrogen liquefaction plant equipped with mixed refrigerant system. <i>Journal of Cleaner Production</i> , 2017, 144, 248-259.	4.6	103
144	Energy and exergy analyses of a combined desalination and CCHP system driven by geothermal energy. <i>Applied Thermal Engineering</i> , 2017, 116, 685-694.	3.0	102

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145	Evaluation of novel process configurations for coproduction of LNG and NGL using advanced exergoeconomic analysis. <i>Applied Thermal Engineering</i> , 2017, 115, 885-898.	3.0	38
146	Analysis of an integrated cryogenic air separation unit, oxy-combustion carbon dioxide power cycle and liquefied natural gas regasification process by exergoeconomic method. <i>Energy Conversion and Management</i> , 2017, 139, 245-259.	4.4	70
147	Energy, exergy and sensitivity analyses of a hybrid combined cooling, heating and power (CCHP) plant with molten carbonate fuel cell (MCFC) and Stirling engine. <i>Journal of Cleaner Production</i> , 2017, 148, 283-294.	4.6	148
148	Introducing and energy analysis of a novel cryogenic hydrogen liquefaction process configuration. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6033-6050.	3.8	150
149	Optimal design and economic analysis of a hybrid solid oxide fuel cell and parabolic solar dish collector, combined cooling, heating and power (CCHP) system used for a large commercial tower. <i>Energy</i> , 2017, 130, 530-543.	4.5	145
150	Design and numerical investigation of Savonius wind turbine with discharge flow directing capability. <i>Energy</i> , 2017, 130, 327-338.	4.5	65
151	Experimental assessment of electrolysis method in production of biodiesel from waste cooking oil using zeolite/chitosan catalyst with a focus on waste biorefinery. <i>Energy Conversion and Management</i> , 2017, 147, 145-154.	4.4	66
152	A novel hydrogen liquefaction process configuration with combined mixed refrigerant systems. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15564-15585.	3.8	115
153	Modeling and investigation of high temperature phase change materials (PCM) in different storage tank configurations. <i>Journal of Cleaner Production</i> , 2017, 161, 831-839.	4.6	47
154	Thermoeconomic analysis and optimization of a regenerative two-stage organic Rankine cycle coupled with liquefied natural gas and solar energy. <i>Energy</i> , 2017, 126, 899-914.	4.5	86
155	Conceptual and basic design of a novel integrated cogeneration power plant energy system. <i>Energy</i> , 2017, 127, 516-533.	4.5	39
156	Advanced exergoeconomic analysis of a novel process for production of LNG by using a single effect absorption refrigeration cycle. <i>Applied Thermal Engineering</i> , 2017, 114, 719-732.	3.0	64
157	A novel integration of oxy-fuel cycle, high temperature solar cycle and LNG cold recovery " energy and exergy analysis. <i>Applied Thermal Engineering</i> , 2017, 114, 1090-1104.	3.0	81
158	Multi-objective exergy-based optimization of a continuous photobioreactor applied to produce hydrogen using a novel combination of soft computing techniques. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8518-8529.	3.8	24
159	Thermo-economic analysis and multi-objective optimization of a transcritical CO ₂ power cycle driven by solar energy and LNG cold recovery. <i>Thermal Science and Engineering Progress</i> , 2017, 4, 185-196.	1.3	64
160	Evaluation of the cryogenic helium recovery process from natural gas based on flash separation by advanced exergy cost method " Linde modified process. <i>Cryogenics</i> , 2017, 87, 1-11.	0.9	28
161	Process development and exergy cost sensitivity analysis of a hybrid molten carbonate fuel cell power plant and carbon dioxide capturing process. <i>Journal of Power Sources</i> , 2017, 364, 299-315.	4.0	54
162	Parametric study of a hybrid one column air separation unit (ASU) and CO ₂ power cycle based on advanced exergy cost analysis results. <i>Energy</i> , 2017, 140, 261-275.	4.5	17

#	ARTICLE	IF	CITATIONS
163	Introducing a hybrid multi-generation fuel cell system, hydrogen production and cryogenic CO ₂ capturing process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 120, 134-147.	1.8	33
164	Process development and exergy cost sensitivity analysis of a novel hydrogen liquefaction process. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29797-29819.	3.8	51
165	Introducing a novel air separation process based on cold energy recovery of LNG integrated with coal gasification, transcritical carbon dioxide power cycle and cryogenic CO ₂ capture. <i>Journal of Cleaner Production</i> , 2017, 142, 1749-1764.	4.6	95
166	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimisation of the Rankine cycle heat engine. <i>International Journal of Ambient Energy</i> , 2016, 37, 363-371.	1.4	24
167	Artificial neural networks modelling of the performance parameters of the Stirling engine. <i>International Journal of Ambient Energy</i> , 2016, 37, 341-347.	1.4	15
168	Energy and advanced exergy analysis of an existing hydrocarbon recovery process. <i>Energy Conversion and Management</i> , 2016, 123, 523-534.	4.4	65
169	Exergoeconomic analysis and multi objective optimization of performance of a Carbon dioxide power cycle driven by geothermal energy with liquefied natural gas as its heat sink. <i>Energy Conversion and Management</i> , 2016, 119, 422-434.	4.4	129
170	Cascade refrigeration systems in integrated cryogenic natural gas process (natural gas liquids (NGL),) Tj ETQq0 0 0 r gBT /Overlock 10 Tf	4.5	95
171	Advanced exergy analysis of novel flash based Helium recovery from natural gas processes. <i>Energy</i> , 2016, 114, 64-83.	4.5	31
172	Exergy analysis and optimization of an integrated micro gas turbine, compressed air energy storage and solar dish collector process. <i>Journal of Cleaner Production</i> , 2016, 139, 372-383.	4.6	116
173	Thermodynamic and exergy analysis and optimization of a transcritical CO ₂ power cycle driven by geothermal energy with liquefied natural gas as its heat sink. <i>Applied Thermal Engineering</i> , 2016, 109, 640-652.	3.0	106
174	Modeling, energy and exergy analysis of solar chimney power plant-Tehran climate data case study. <i>Energy</i> , 2016, 115, 257-273.	4.5	64
175	Exergoeconomic analysis and multi-objective Pareto optimization of the C3MR liquefaction process. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 17, 56-67.	1.7	47
176	Introducing an integrated chemical looping hydrogen production, inherent carbon capture and solid oxide fuel cell biomass fueled power plant process configuration. <i>Energy Conversion and Management</i> , 2016, 124, 141-154.	4.4	110
177	Thermodynamic analysis and optimization of a waste heat recovery system for proton exchange membrane fuel cell using transcritical carbon dioxide cycle and cold energy of liquefied natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 428-438.	2.1	85
178	Introducing and analysis of a hybrid molten carbonate fuel cell-supercritical carbon dioxide Brayton cycle system. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 18, 100-106.	1.7	57
179	Optimal design of an Otto cycle based on thermal criteria. <i>Mechanics and Industry</i> , 2016, 17, 111.	0.5	22
180	Conceptual design and energy analysis of novel integrated liquefied natural gas and fuel cell electrochemical power plant processes. <i>Energy</i> , 2016, 111, 468-483.	4.5	55

#	ARTICLE	IF	CITATIONS
181	Effects of membrane electrode assembly fabrication parameters on the proton exchange membrane fuel cell performance. <i>International Journal of Ambient Energy</i> , 2016, 37, 639-644.	1.4	8
182	Energy and exergy analyses of a novel power cycle using the cold of LNG (liquefied natural gas) and low-temperature solar energy. <i>Energy</i> , 2016, 95, 324-345.	4.5	107
183	Novel mixed fluid cascade natural gas liquefaction process configuration using absorption refrigeration system. <i>Applied Thermal Engineering</i> , 2016, 98, 591-604.	3.0	64
184	Optimal design of solid oxide fuel cell, ammonia-water single effect absorption cycle and Rankine steam cycle hybrid system. <i>Journal of Power Sources</i> , 2016, 306, 107-123.	4.0	106
185	Investigation of novel integrated air separation processes, cold energy recovery of liquefied natural gas and carbon dioxide power cycle. <i>Journal of Cleaner Production</i> , 2016, 113, 411-425.	4.6	80
186	A novel multi-hybrid model for estimating optimal viscosity correlations of Iranian crude oil. <i>Journal of Petroleum Science and Engineering</i> , 2016, 142, 68-76.	2.1	19
187	Investigation of the effect of design parameters on power output and thermal efficiency of a Stirling engine by thermodynamic analysis. <i>International Journal of Low-Carbon Technologies</i> , 2016, 11, 141-156.	1.2	19
188	Thermodynamic optimisation of irreversible refrigerators base on NSGAll. <i>International Journal of Renewable Energy Technology</i> , 2015, 6, 261.	0.2	2
189	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. <i>Sustainability</i> , 2015, 7, 2243-2255.	1.6	73
190	Advanced exergoeconomic analysis of the multistage mixed refrigerant systems. <i>Energy Conversion and Management</i> , 2015, 103, 705-716.	4.4	56
191	Thermo-economic modeling and optimization of an irreversible solar-driven heat engine. <i>Energy Conversion and Management</i> , 2015, 103, 616-622.	4.4	35
192	Advanced exergoeconomic evaluation of single mixed refrigerant natural gas liquefaction processes. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 782-791.	2.1	69
193	Optimization of performance of Combined Solar Collector-Geothermal Heat Pump Systems to supply thermal load needed for heating greenhouses. <i>Energy Conversion and Management</i> , 2015, 97, 382-392.	4.4	117
194	Exergoeconomic evaluation of single mixed refrigerant natural gas liquefaction processes. <i>Energy Conversion and Management</i> , 2015, 99, 400-413.	4.4	62
195	Energy and exergy analysis and optimal design of the hybrid molten carbonate fuel cell power plant and carbon dioxide capturing process. <i>Energy Conversion and Management</i> , 2015, 98, 15-27.	4.4	81
196	Optimum Design of the Flow-Field Channels and Fabrication of a Micro-PEM Fuel Cell. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3640-3647.	1.8	14
197	Techno-economic assessment of a Kalina cycle driven by a parabolic Trough solar collector. <i>Energy Conversion and Management</i> , 2015, 105, 1328-1339.	4.4	166
198	Design and Implementation of Optimized Fuzzy Logic Controller for a Nonlinear Dynamic Industrial Plant Using Hysys and Matlab Simulation Packages. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11097-11105.	1.8	8

#	ARTICLE	IF	CITATIONS
199	Optimum design and exergy analysis of a novel cryogenic air separation process with LNG (liquefied) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	4.5	155
200	Thermo-ecological analysis and optimization performance of an irreversible three-heat-source absorption heat pump. Energy Conversion and Management, 2015, 90, 175-183.	4.4	79
201	Energy and exergy analyses of five conventional liquefied natural gas processes. International Journal of Energy Research, 2014, 38, 1843-1863.	2.2	105
202	Advanced exergetic analysis of five natural gas liquefaction processes. Energy Conversion and Management, 2014, 78, 720-737.	4.4	155
203	Modeling and optimum design of hybrid solid oxide fuel cell-gas turbine power plants. International Journal of Hydrogen Energy, 2014, 39, 21196-21214.	3.8	57
204	Thermodynamic and thermo-economic analysis and optimization of performance of irreversible four-temperature-level absorption refrigeration. Energy Conversion and Management, 2014, 88, 1051-1059.	4.4	94
205	Novel LNG-Based Integrated Process Configuration Alternatives for Coproduction of LNG and NGL. Industrial & Engineering Chemistry Research, 2014, 53, 17705-17721.	1.8	85
206	Modification of an Industrial Ethane Recovery Plant Using Mixed Integer Optimization and Shuffled Frog Leaping Algorithm. Arabian Journal for Science and Engineering, 2013, 38, 439-455.	1.1	15
207	A novel process configuration for co-production of NGL and LNG with low energy requirement. Chemical Engineering and Processing: Process Intensification, 2013, 63, 16-24.	1.8	74
208	Dynamic Modeling of a Hybrid Photovoltaic System with Hydrogen/Air PEM Fuel Cell. Iranica Journal of Energy & Environment, 2013, , .	0.2	4
209	Introducing a new parameter for evaluating the degree of integration in cryogenic liquid recovery processes. Chemical Engineering and Processing: Process Intensification, 2011, 50, 916-930.	1.8	41
210	Exergy analysis of C2+ recovery plants refrigeration cycles. Chemical Engineering Research and Design, 2011, 89, 676-689.	2.7	71
211	Optimum design of integrated liquid recovery plants by variable population size genetic algorithm. Canadian Journal of Chemical Engineering, 2010, 88, 1054-1064.	0.9	39
212	Introducing a novel integrated NGL recovery process configuration (with a self-refrigeration system) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Process Intensification, 2010, 49, 376-388.	1.8	63
213	A Molecular Approach for the Prediction of Sulfur Compound Solubility Parameters. Phosphorus, Sulfur and Silicon and the Related Elements, 2009, 185, 204-210.	0.8	31
214	Thermoeconomic analysis of a large industrial propane refrigeration cycle used in NGL recovery plant. International Journal of Energy Research, 2009, 33, 960-977.	2.2	59
215	Prediction of standard chemical exergy by a three descriptors QSPR model. Energy Conversion and Management, 2007, 48, 2453-2460.	4.4	90
216	Simulation and exergy-method analysis of an industrial refrigeration cycle used in NGL recovery units. International Journal of Energy Research, 2006, 30, 1336-1351.	2.2	55

#	ARTICLE	IF	CITATIONS
217	Design optimization of a heat-to-cool Stirling cycle using artificial neural network. International Journal of Energy Research, 0, , .	2.2	1
218	Numerical simulation of blood cell separation in an acoustofluidic system. Chemical Papers, 0, , .	1.0	0