

# Marc A Rosen

## List of Publications by Year in descending order

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477  
papers

23,590  
citations

7069

78  
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13727

129  
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504  
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504  
docs citations

504  
times ranked

14318  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of energy storage types, applications and recent developments. <i>Journal of Energy Storage</i> , 2020, 27, 101047.	3.9	941
2	Role of exergy in increasing efficiency and sustainability and reducing environmental impact. <i>Energy Policy</i> , 2008, 36, 128-137.	4.2	534
3	District heating and cooling: Review of technology and potential enhancements. <i>Applied Energy</i> , 2012, 93, 2-10.	5.1	507
4	Exergy, exergoeconomic and environmental analyses and evolutionary algorithm based multi-objective optimization of combined cycle power plants. <i>Energy</i> , 2011, 36, 5886-5898.	4.5	452
5	Geothermal heat pump systems: Status review and comparison with other heating options. <i>Applied Energy</i> , 2013, 101, 341-348.	5.1	438
6	The prospects for hydrogen as an energy carrier: an overview of hydrogen energy and hydrogen energy systems. <i>Energy, Ecology and Environment</i> , 2016, 1, 10-29.	1.9	324
7	Economic and environmental comparison of conventional, hybrid, electric and hydrogen fuel cell vehicles. <i>Journal of Power Sources</i> , 2006, 159, 1186-1193.	4.0	323
8	Thermodynamic aspects of renewables and sustainable development. <i>Renewable and Sustainable Energy Reviews</i> , 2005, 9, 169-189.	8.2	294
9	Sustainable Manufacturing and Design: Concepts, Practices and Needs. <i>Sustainability</i> , 2012, 4, 154-174.	1.6	293
10	Exergy as the confluence of energy, environment and sustainable development. <i>Exergy an International Journal</i> , 2001, 1, 3-13.	0.7	288
11	A critical review of photovoltaic-thermal solar collectors for air heating. <i>Applied Energy</i> , 2011, 88, 3603-3614.	5.1	284
12	ON EXERGY AND ENVIRONMENTAL IMPACT. <i>International Journal of Energy Research</i> , 1997, 21, 643-654.	2.2	243
13	Energy, environment and sustainable development. <i>Applied Energy</i> , 1999, 64, 427-440.	5.1	242
14	Energy and exergy analyses of hydrogen production via solar-boosted ocean thermal energy conversion and PEM electrolysis. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1795-1805.	3.8	240
15	Exergo-environmental analysis of an integrated organic Rankine cycle for trigeneration. <i>Energy Conversion and Management</i> , 2012, 64, 447-453.	4.4	239
16	Efficiency analysis of a cogeneration and district energy system. <i>Applied Thermal Engineering</i> , 2005, 25, 147-159.	3.0	237
17	Development and assessment of an integrated biomass-based multi-generation energy system. <i>Energy</i> , 2013, 56, 155-166.	4.5	227
18	Performance evaluation of a double pass PV/T solar air heater with and without fins. <i>Applied Thermal Engineering</i> , 2011, 31, 1402-1410.	3.0	226

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19	Intelligent optimization to integrate a plug-in hybrid electric vehicle smart parking lot with renewable energy resources and enhance grid characteristics. <i>Energy Conversion and Management</i> , 2014, 77, 250-261.	4.4	214
20	Understanding energy and exergy efficiencies for improved energy management in power plants. <i>Energy Policy</i> , 2007, 35, 3967-3978.	4.2	205
21	Advances in hydrogen production by thermochemical water decomposition: A review. <i>Energy</i> , 2010, 35, 1068-1076.	4.5	204
22	Life cycle assessment of hydrogen fuel cell and gasoline vehicles. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 337-352.	3.8	202
23	A worldwide perspective on energy, environment and sustainable development. <i>International Journal of Energy Research</i> , 1998, 22, 1305-1321.	2.2	192
24	Thermodynamic modeling and multi-objective evolutionary-based optimization of a new multigeneration energy system. <i>Energy Conversion and Management</i> , 2013, 76, 282-300.	4.4	186
25	Review on use of phase change materials in battery thermal management for electric and hybrid electric vehicles. <i>International Journal of Energy Research</i> , 2016, 40, 1011-1031.	2.2	183
26	Exergy analysis of waste emissions. <i>International Journal of Energy Research</i> , 1999, 23, 1153-1163.	2.2	175
27	Energy and exergy assessments of a novel trigeneration system based on a solid oxide fuel cell. <i>Energy Conversion and Management</i> , 2014, 87, 318-327.	4.4	174
28	Multi-objective exergy-based optimization of a polygeneration energy system using an evolutionary algorithm. <i>Energy</i> , 2012, 46, 21-31.	4.5	165
29	Novel thermal management system using boiling cooling for high-powered lithium-ion battery packs for hybrid electric vehicles. <i>Journal of Power Sources</i> , 2017, 363, 291-303.	4.0	159
30	Greenhouse gas emission and exergo-environmental analyses of a trigeneration energy system. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1540-1549.	2.3	158
31	Thermoeconomic multi-objective optimization of a novel biomass-based integrated energy system. <i>Energy</i> , 2014, 68, 958-970.	4.5	155
32	Energy and exergy analyses of a solar-biomass integrated cycle for multigeneration. <i>Solar Energy</i> , 2015, 112, 290-299.	2.9	152
33	Exergy methods for assessing and comparing thermal storage systems. <i>International Journal of Energy Research</i> , 2003, 27, 415-430.	2.2	148
34	Effect of varying dead-state properties on energy and exergy analyses of thermal systems. <i>International Journal of Thermal Sciences</i> , 2004, 43, 121-133.	2.6	147
35	Energy- and exergy-based comparison of coal-fired and nuclear steam power plants. <i>Exergy an International Journal</i> , 2001, 1, 180-192.	0.7	143
36	Thermodynamic analysis of hydrogen production from biomass gasification. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4970-4980.	3.8	139

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37	A review of novel thermal management systems for batteries. International Journal of Energy Research, 2018, 42, 3182-3205.	2.2	138
38	Thermodynamic analysis of solar photovoltaic cell systems. Solar Energy Materials and Solar Cells, 2007, 91, 153-159.	3.0	137
39	Assessment of CO2 capture options from various points in steam methane reforming for hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 20266-20275.	3.8	137
40	Energy and exergy analyses of a biomass-based hydrogen production system. Bioresource Technology, 2011, 102, 8466-8474.	4.8	132
41	Exergy as a Driver for Achieving Sustainability. International Journal of Green Energy, 2004, 1, 1-19.	2.1	129
42	Thermoeconomic analysis of a solar-biomass integrated multigeneration system for a community. Applied Thermal Engineering, 2017, 120, 645-653.	3.0	128
43	Performance of ground heat exchangers: A comprehensive review of recent advances. Energy, 2019, 178, 207-233.	4.5	128
44	Multi-objective optimization of a novel solar-based multigeneration energy system. Solar Energy, 2014, 108, 576-591.	2.9	125
45	Exergoeconomic comparison of double effect and combined ejector-double effect absorption refrigeration systems. Applied Energy, 2013, 103, 700-711.	5.1	124
46	Economic analysis of standalone hybrid energy systems for application in Tehran, Iran. International Journal of Hydrogen Energy, 2016, 41, 7732-7743.	3.8	124
47	Environmental and economic aspects of hydrogen production and utilization in fuel cell vehicles. Journal of Power Sources, 2006, 157, 411-421.	4.0	123
48	EXERGY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT. , 2007, , 36-59.		120
49	Exergetic life cycle assessment of hydrogen production from renewables. Journal of Power Sources, 2007, 167, 461-471.	4.0	119
50	Opening the Black Box of Psychological Processes in the Science of Sustainable Development: A New Frontier. European Journal of Sustainable Development Research, 2018, 2, .	0.4	118
51	Performance assessment and optimization of a novel integrated multigeneration system for residential buildings. Energy and Buildings, 2013, 67, 568-578.	3.1	115
52	Exergoeconomic analysis of double effect absorption refrigeration systems. Energy Conversion and Management, 2013, 65, 13-25.	4.4	114
53	Feasibility of satisfying electrical energy needs with hybrid systems for a medium-size hotel on Kish Island, Iran. Energy, 2014, 73, 856-865.	4.5	112
54	Investigation of an integrated system combining an Organic Rankine Cycle and absorption chiller driven by geothermal energy: Energy, exergy, and economic analyses and optimization. Journal of Cleaner Production, 2020, 258, 120780.	4.6	111

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55	Thermal performance of integrated collector storage solar water heater with corrugated absorber surface. <i>Applied Thermal Engineering</i> , 2010, 30, 1764-1768.	3.0	109
56	Performance Analysis of a New Electricity and Freshwater Production System Based on an Integrated Gasification Combined Cycle and Multi-Effect Desalination. <i>Sustainability</i> , 2020, 12, 7996.	1.6	104
57	Sectoral Energy and Exergy Modeling of Turkey. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 1997, 119, 200-204.	1.4	101
58	A comparative life cycle analysis of hydrogen production via thermochemical water splitting using a Cu-Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11321-11327.	3.8	101
59	Ten Years of Sustainability (2009 to 2018): A Bibliometric Overview. <i>Sustainability</i> , 2018, 10, 1655.	1.6	101
60	Thermoeconomic optimization using an evolutionary algorithm of a trigeneration system driven by a solid oxide fuel cell. <i>Energy</i> , 2015, 89, 191-204.	4.5	100
61	Thermoeconomic analysis of power plants: an application to a coal fired electrical generating station. <i>Energy Conversion and Management</i> , 2003, 44, 2743-2761.	4.4	98
62	Evaluation of wind energy potential in province of Bushehr, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 455-466.	8.2	98
63	Comparative economic and life cycle assessment of solar-based hydrogen production for oil and gas industries. <i>Energy</i> , 2020, 208, 118347.	4.5	98
64	Allocating carbon dioxide emissions from cogeneration systems: descriptions of selected output-based methods. <i>Journal of Cleaner Production</i> , 2008, 16, 171-177.	4.6	97
65	Performance assessment and optimization of a biomass-based solid oxide fuel cell and micro gas turbine system integrated with an organic Rankine cycle. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6262-6277.	3.8	96
66	Energy, exergy, economic and advanced and extended exergy analyses of a wind turbine. <i>Energy Conversion and Management</i> , 2019, 183, 369-381.	4.4	95
67	Thermodynamic analysis of wind energy. <i>International Journal of Energy Research</i> , 2006, 30, 553-566.	2.2	94
68	Assessment of wind energy potential and economics in the north-western Iranian cities of Tabriz and Ardabil. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 45, 87-99.	8.2	94
69	Effect of stratification on energy and exergy capacities in thermal storage systems. <i>International Journal of Energy Research</i> , 2004, 28, 177-193.	2.2	93
70	Integrated hydrogen production options based on renewable and nuclear energy sources. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6059-6082.	8.2	91
71	Hybrid solar-fuel cell combined heat and power systems for residential applications: Energy and exergy analyses. <i>Journal of Power Sources</i> , 2013, 221, 372-380.	4.0	90
72	Analysis and assessment of an integrated hydrogen energy system. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7960-7967.	3.8	89

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73	Exergetic evaluation of the renewability of a biofuel. <i>Exergy an International Journal</i> , 2001, 1, 256-268.	0.7	88
74	Exergoeconoenvironmental analysis as a new concept for developing thermodynamically, economically, and environmentally sound energy conversion systems. <i>Journal of Cleaner Production</i> , 2018, 187, 190-204.	4.6	88
75	Energy Sustainability: A Pragmatic Approach and Illustrations. <i>Sustainability</i> , 2009, 1, 55-80.	1.6	87
76	Assessment of metal pollution in urban road dusts from selected highways of the Greater Toronto Area in Canada. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 1847-1858.	1.3	84
77	Consolidating exergoeconomic and exergoenvironmental analyses using the emergy concept for better understanding energy conversion systems. <i>Journal of Cleaner Production</i> , 2018, 172, 696-708.	4.6	84
78	Using Exergy to Understand and Improve the Efficiency of Electrical Power Technologies. <i>Entropy</i> , 2009, 11, 820-835.	1.1	83
79	Electrochemical modeling and performance evaluation of a new ammonia-based battery thermal management system for electric and hybrid electric vehicles. <i>Electrochimica Acta</i> , 2017, 247, 171-182.	2.6	82
80	Sustainability aspects of hydrogen and fuel cell systems. <i>Energy for Sustainable Development</i> , 2011, 15, 137-146.	2.0	80
81	Optimal Operation of a Grid-Connected Hybrid Renewable Energy System for Residential Applications. <i>Sustainability</i> , 2017, 9, 1314.	1.6	80
82	Factors Affecting Green Entrepreneurship Intentions in Business University Students in COVID-19 Pandemic Times: Case of Ecuador. <i>Sustainability</i> , 2021, 13, 6447.	1.6	80
83	Selection of Optimum Working Fluid for Organic Rankine Cycles by Exergy and Exergy-Economic Analyses. <i>Sustainability</i> , 2015, 7, 15362-15383.	1.6	79
84	Thermodynamic analysis of a novel combined cooling, heating and power system driven by solar energy. <i>Applied Thermal Engineering</i> , 2018, 129, 1219-1229.	3.0	79
85	Development and analysis of a new renewable energy-based multi-generation system. <i>Energy</i> , 2015, 79, 90-99.	4.5	78
86	Heat and mass transfer modeling and assessment of a new battery cooling system. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 765-778.	2.5	78
87	A study of industrial steam process heating through exergy analysis. <i>International Journal of Energy Research</i> , 2004, 28, 917-930.	2.2	76
88	Hydrogen production from coal gasification for effective downstream CO <sub>2</sub> capture. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4933-4943.	3.8	74
89	Energy and exergy assessments of the hydrogen production step of a copper-chlorine thermochemical water splitting cycle driven by nuclear-based heat. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6456-6466.	3.8	73
90	Comparative environmental impact and efficiency assessment of selected hydrogen production methods. <i>Environmental Impact Assessment Review</i> , 2013, 42, 1-9.	4.4	73

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91	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. Sustainability, 2015, 7, 2243-2255.	1.6	73
92	Exergy analysis of a fuel cell power system for transportation applications. Exergy an International Journal, 2001, 1, 112-121.	0.7	72
93	Techno-economic assessment of a renewable energy based integrated multigeneration system for green buildings. Applied Thermal Engineering, 2016, 99, 1286-1294.	3.0	72
94	Artificial neural network analysis of world green energy use. Energy Policy, 2007, 35, 1731-1743.	4.2	71
95	Biomass gasification using various gasification agents: Optimum feedstock selection, detailed numerical analyses and tri-objective grey wolf optimization. Journal of Cleaner Production, 2021, 284, 124718.	4.6	71
96	A novel approach for performance improvement of liquid to vapor based battery cooling systems. Energy Conversion and Management, 2019, 187, 191-204.	4.4	70
97	An optimal versatile control approach for plug-in electric vehicles to integrate renewable energy sources and smart grids. Energy, 2017, 134, 1053-1067.	4.5	69
98	First and second law analysis of ammonia/salt absorption refrigeration systems. International Journal of Refrigeration, 2014, 40, 111-121.	1.8	68
99	Analysis and feasibility of an evaporative cooling system with diffusion-based sessile droplet evaporation for cooling microprocessors. Applied Thermal Engineering, 2017, 125, 104-110.	3.0	68
100	Greenhouse gas emission and exergy analyses of an integrated trigeneration system driven by a solid oxide fuel cell. Applied Thermal Engineering, 2015, 86, 81-90.	3.0	67
101	Sensitivity of exergy efficiencies of aerospace engines to reference environment selection. Exergy an International Journal, 2001, 1, 91-99.	0.7	66
102	Efficiency comparison of various design schemes for copper-chlorine (Cu-Cl) hydrogen production processes using Aspen Plus software. Energy Conversion and Management, 2012, 63, 70-86.	4.4	66
103	Appropriate Thermodynamic Performance Measures for Closed Systems for Thermal Energy Storage. Journal of Solar Energy Engineering, Transactions of the ASME, 1992, 114, 100-105.	1.1	65
104	A comparative thermoeconomic evaluation of three biomass and biomass-natural gas fired combined cycles using organic Rankine cycles. Journal of Cleaner Production, 2017, 161, 524-544.	4.6	64
105	Examination of thermal interaction of multiple vertical ground heat exchangers. Applied Energy, 2012, 97, 962-969.	5.1	63
106	Multi-objective optimization of an ocean thermal energy conversion system for hydrogen production. International Journal of Hydrogen Energy, 2015, 40, 7601-7608.	3.8	63
107	Exergy analysis of thermal energy storage in a district energy application. Renewable Energy, 2015, 74, 848-854.	4.3	63
108	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. Energies, 2016, 9, 316.	1.6	63

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109	Experimental Investigation of Soil Thermal Conductivity Over a Wide Temperature Range. <i>International Journal of Thermophysics</i> , 2013, 34, 1110-1129.	1.0	62
110	Development and assessment of a novel integrated nuclear plant for electricity and hydrogen production. <i>Energy Conversion and Management</i> , 2017, 134, 221-234.	4.4	61
111	Biomass Briquettes as an Alternative Fuel: A Comprehensive Review. <i>Energy Technology</i> , 2019, 7, 1801011.	1.8	60
112	Influence of Technostress on Academic Performance of University Medicine Students in Peru during the COVID-19 Pandemic. <i>Sustainability</i> , 2021, 13, 8949.	1.6	60
113	Price-driven economic order systems from a thermodynamic point of view. <i>International Journal of Production Research</i> , 2004, 42, 5167-5184.	4.9	59
114	An analytical approach to evaluating the effect of thermal interaction of geothermal heat exchangers on ground heat pump efficiency. <i>Energy Conversion and Management</i> , 2014, 78, 184-192.	4.4	59
115	An integrated model for designing a solar community heating system with borehole thermal storage. <i>Energy for Sustainable Development</i> , 2017, 36, 6-15.	2.0	59
116	Expectations and Interests of University Students in COVID-19 Times about Sustainable Development Goals: Evidence from Colombia, Ecuador, Mexico, and Peru. <i>Sustainability</i> , 2021, 13, 3306.	1.6	59
117	Engineering Sustainability: A Technical Approach to Sustainability. <i>Sustainability</i> , 2012, 4, 2270-2292.	1.6	58
118	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.	1.6	58
119	Advances in integration of energy, water and environment systems towards climate neutrality for sustainable development. <i>Energy Conversion and Management</i> , 2020, 225, 113410.	4.4	58
120	Short-term wind speed forecasting using artificial neural networks for Tehran, Iran. <i>International Journal of Energy and Environmental Engineering</i> , 2016, 7, 377-390.	1.3	57
121	A holistic approach to sustainable development of energy, water and environment systems. <i>Journal of Cleaner Production</i> , 2017, 155, 1-11.	4.6	57
122	Life cycle assessment of hydrogen production via thermochemical water splitting using multi-step Cu-Cl cycles. <i>Journal of Cleaner Production</i> , 2012, 33, 202-216.	4.6	56
123	A novel phase change based cooling system for prismatic lithium ion batteries. <i>International Journal of Refrigeration</i> , 2018, 86, 203-217.	1.8	56
124	Thermodynamic analysis and comparison of combined ejector-absorption and single effect absorption refrigeration systems. <i>Applied Energy</i> , 2014, 133, 335-346.	5.1	55
125	Coupling of copper-chloride hybrid thermochemical water splitting cycle with a desalination plant for hydrogen production from nuclear energy. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1560-1574.	3.8	54
126	Nuclear-based hydrogen production with a thermochemical copper-chlorine cycle and supercritical water reactor: equipment scale-up and process simulation. <i>International Journal of Energy Research</i> , 2012, 36, 456-465.	2.2	54



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127	Development of a four-step Cu-Cl cycle for hydrogen production – Part I: Exergoeconomic and exergoenvironmental analyses. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7814-7825.	3.8	54
128	Energy and exergy analyses of cold thermal storage systems. <i>International Journal of Energy Research</i> , 1999, 23, 1029-1038.	2.2	53
129	Energy, exergy, economic, exergoeconomic, and exergoenvironmental (5E) analyses of a triple cycle with carbon capture. <i>Journal of CO2 Utilization</i> , 2020, 41, 101258.	3.3	53
130	Polygeneration systems based on high temperature fuel cell (MCFC and SOFC) technology: System design, fuel types, modeling and analysis approaches. <i>Energy</i> , 2021, 228, 120613.	4.5	52
131	Exergoeconomic analysis of a thermochemical copper-chlorine cycle for hydrogen production using specific exergy cost (SPECOC) method. <i>Thermochimica Acta</i> , 2010, 497, 60-66.	1.2	51
132	Review of underground coal gasification technologies and carbon capture. <i>International Journal of Energy and Environmental Engineering</i> , 2012, 3, 1.	1.3	51
133	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.	1.6	51
134	Thermodynamic analysis of a hybrid geothermal heat pump system. <i>Geothermics</i> , 2011, 40, 233-238.	1.5	50
135	Transient thermal performance assessment of a hybrid solar-fuel cell system in Toronto, Canada. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7846-7854.	3.8	50
136	A thermal performance management system for lithium-ion battery packs. <i>Applied Thermal Engineering</i> , 2020, 165, 114378.	3.0	50
137	Production of hydrogen-rich syngas from novel processes for gasification of petroleum cokes and coals. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11577-11592.	3.8	50
138	Environmental evaluation of hydrogen production via thermochemical water splitting using the Cu-Cl Cycle: A parametric study. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9514-9528.	3.8	49
139	Analysis and assessment of novel liquid air energy storage system with district heating and cooling capabilities. <i>Energy</i> , 2017, 141, 792-802.	4.5	49
140	Advanced exergy and advanced exergoeconomic analyses of biomass and natural gas fired combined cycles with hydrogen production. <i>Applied Thermal Engineering</i> , 2018, 134, 1-11.	3.0	49
141	Thermodynamic Optimization of a Geothermal Power Plant with a Genetic Algorithm in Two Stages. <i>Processes</i> , 2020, 8, 1277.	1.3	49
142	An exergy-cost-energy-mass analysis of a hybrid copper-chlorine thermochemical cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4831-4838.	3.8	48
143	Techno-economic assessment of a solar-geothermal multigeneration system for buildings. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21454-21462.	3.8	48
144	Entropy production and exergy destruction: Part I – hierarchy of Earth's major constituencies. <i>International Journal of Hydrogen Energy</i> , 2003, 28, 1307-1313.	3.8	47

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145	Integrated collector-storage solar water heater with extended storage unit. Applied Thermal Engineering, 2011, 31, 348-354.	3.0	47
146	Development of new heat exchanger network designs for a four-step Cu-Cl cycle for hydrogen production. Energy, 2014, 77, 338-351.	4.5	47
147	Analysis and assessment of a hydrogen production plant consisting of coal gasification, thermochemical water decomposition and hydrogen compression systems. Energy Conversion and Management, 2018, 157, 600-618.	4.4	47
148	Economic and environmental assessment using exergy of a geothermal power plant. Energy Conversion and Management, 2021, 228, 113666.	4.4	47
149	Exergetic environmental assessment of life cycle emissions for various automobiles and fuels. Exergy an International Journal, 2002, 2, 283-294.	0.7	46
150	Sustainable development of energy, water and environment systems for future energy technologies and concepts. Energy Conversion and Management, 2016, 125, 1-14.	4.4	46
151	Exergy Analysis for the Evaluation of the Performance of Closed Thermal Energy Storage Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 1988, 110, 255-261.	1.1	45
152	Development and evaluation of a new ammonia boiling based battery thermal management system. Electrochimica Acta, 2018, 280, 340-352.	2.6	45
153	Comparative life cycle assessment of hydrogen and other selected fuels. International Journal of Hydrogen Energy, 2012, 37, 9933-9940.	3.8	44
154	Integrated approach for sustainable development of energy, water and environment systems. Energy Conversion and Management, 2018, 159, 398-412.	4.4	43
155	A Comprehensive Review of Backfill Materials and Their Effects on Ground Heat Exchanger Performance. Sustainability, 2018, 10, 4486.	1.6	43
156	The oxygen production step of a copper-chlorine thermochemical water decomposition cycle for hydrogen production: Energy and exergy analyses. Chemical Engineering Science, 2009, 64, 860-869.	1.9	42
157	Comparison of gas turbine inlet air cooling systems for several climates in Iran using energy, exergy, economic, and environmental (4E) analyses. Energy Conversion and Management, 2020, 216, 112944.	4.4	42
158	Optimum conditions for a natural gas combined cycle power generation system based on available oxygen when using biomass as supplementary fuel. Energy, 2009, 34, 816-826.	4.5	41
159	Aerospace systems and exergy analysis: applications and methodology development needs. International Journal of Exergy, 2004, 1, 411.	0.2	40
160	A comparative study of the performance characteristics of double-effect absorption refrigeration systems. International Journal of Energy Research, 2012, 36, 182-192.	2.2	40
161	Application of sliding window technique for prediction of wind velocity time series. International Journal of Energy and Environmental Engineering, 2014, 5, 1.	1.3	40
162	Sustainable development of energy systems. Energy Conversion and Management, 2014, 87, 1057-1062.	4.4	39

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163	Thermodynamic analysis of a novel multigeneration energy system based on heat recovery from a biomass CHP cycle. <i>Applied Thermal Engineering</i> , 2015, 89, 90-100.	3.0	39
164	Comparative assessment of new liquid-to-vapor type battery cooling systems. <i>Energy</i> , 2019, 188, 116010.	4.5	39
165	Thermodynamic Performance of Ice Thermal Energy Storage Systems. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2000, 122, 205-211.	1.4	38
166	Efficiency analysis of a hybrid copper-chlorine (Cu-Cl) cycle for nuclear-based hydrogen production. <i>Chemical Engineering Journal</i> , 2009, 155, 132-137.	6.6	38
167	Performance Assessment of a Novel Solar and Ocean Thermal Energy Conversion Based Multigeneration System for Coastal Areas. <i>Journal of Solar Energy Engineering</i> , Transactions of the ASME, 2015, 137, .	1.1	38
168	Development of a four-step Cu-Cl cycle for hydrogen production – Part II: Multi-objective optimization. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7826-7834.	3.8	38
169	Exergoeconomic analysis of natural gas fired and biomass post-fired combined cycle with hydrogen injection into the combustion chamber. <i>Journal of Cleaner Production</i> , 2018, 180, 450-465.	4.6	38
170	Performance assessment of a new hydrogen cooled prismatic battery pack arrangement for hydrogen hybrid electric vehicles. <i>Energy Conversion and Management</i> , 2018, 173, 303-319.	4.4	38
171	Technoeconomic and environmental optimization of a solar tower integrated energy system for freshwater production. <i>Journal of Cleaner Production</i> , 2020, 270, 121760.	4.6	38
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