

# Ibrahim Dincer

## List of Publications by Year in descending order

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1,120  
papers

63,546  
citations

729

120  
h-index

2812

191  
g-index

1140  
all docs

1140  
docs citations

1140  
times ranked

29379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Renewable energy and sustainable development: a crucial review. <i>Renewable and Sustainable Energy Reviews</i> , 2000, 4, 157-175.	8.2	1,698
2	Review and evaluation of hydrogen production methods for better sustainability. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11094-11111.	3.8	1,666
3	Green methods for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1954-1971.	3.8	841
4	Comparative assessment of hydrogen production methods from renewable and non-renewable sources. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1-12.	3.8	665
5	Using ammonia as a sustainable fuel. <i>Journal of Power Sources</i> , 2008, 185, 459-465.	4.0	583
6	On hydrogen and hydrogen energy strategies. <i>Renewable and Sustainable Energy Reviews</i> , 2005, 9, 255-271.	8.2	582
7	Review and evaluation of hydrogen production options for better environment. <i>Journal of Cleaner Production</i> , 2019, 218, 835-849.	4.6	570
8	Role of exergy in increasing efficiency and sustainability and reducing environmental impact. <i>Energy Policy</i> , 2008, 36, 128-137.	4.2	534
9	A review on clean energy solutions for better sustainability. <i>International Journal of Energy Research</i> , 2015, 39, 585-606.	2.2	454
10	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
11	The role of exergy in energy policy making. <i>Energy Policy</i> , 2002, 30, 137-149.	4.2	441
12	Ammonia as a green fuel and hydrogen source for vehicular applications. <i>Fuel Processing Technology</i> , 2009, 90, 729-737.	3.7	437
13	Biomass-based hydrogen production: A review and analysis. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8799-8817.	3.8	432
14	Review of photocatalytic water-splitting methods for sustainable hydrogen production. <i>International Journal of Energy Research</i> , 2016, 40, 1449-1473.	2.2	427
15	Energy, Entropy and Exergy Concepts and Their Roles in Thermal Engineering. <i>Entropy</i> , 2001, 3, 116-149.	1.1	426
16	A review on solar-hydrogen/fuel cell hybrid energy systems for stationary applications. <i>Progress in Energy and Combustion Science</i> , 2009, 35, 231-244.	15.8	385
17	Life cycle assessment of various hydrogen production methods. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2071-2080.	3.8	383
18	On thermal energy storage systems and applications in buildings. <i>Energy and Buildings</i> , 2002, 34, 377-388.	3.1	377

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19	A review and comparative evaluation of thermochemical water splitting cycles for hydrogen production. <i>Energy Conversion and Management</i> , 2020, 205, 112182.	4.4	356
20	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
21	Thermodynamic aspects of renewables and sustainable development. <i>Renewable and Sustainable Energy Reviews</i> , 2005, 9, 169-189.	8.2	294
22	Environmental and sustainability aspects of hydrogen and fuel cell systems. <i>International Journal of Energy Research</i> , 2007, 31, 29-55.	2.2	289
23	Exergy as the confluence of energy, environment and sustainable development. <i>Exergy an International Journal</i> , 2001, 1, 3-13.	0.7	288
24	The potential role of hydrogen as a sustainable transportation fuel to combat global warming. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3396-3406.	3.8	283
25	Thermal design and simulation of mini-channel cold plate for water cooled large sized prismatic lithium-ion battery. <i>Applied Thermal Engineering</i> , 2017, 122, 80-90.	3.0	280
26	Environmental impacts of energy. <i>Energy Policy</i> , 1999, 27, 845-854.	4.2	273
27	A new model for thermodynamic analysis of a drying process. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 645-652.	2.5	271
28	A review on clean ammonia as a potential fuel for power generators. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 103, 96-108.	8.2	267
29	Technical, environmental and exergetic aspects of hydrogen energy systems. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 265-285.	3.8	263
30	Green energy strategies for sustainable development. <i>Energy Policy</i> , 2006, 34, 3623-3633.	4.2	263
31	Heat transfer and thermal management with PCMs in a Li-ion battery cell for electric vehicles. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 690-703.	2.5	259
32	ON EXERGY AND ENVIRONMENTAL IMPACT. <i>International Journal of Energy Research</i> , 1997, 21, 643-654.	2.2	243
33	Energy, environment and sustainable development. <i>Applied Energy</i> , 1999, 64, 427-440.	5.1	242
34	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
35	Exergo-environmental analysis of an integrated organic Rankine cycle for trigeneration. <i>Energy Conversion and Management</i> , 2012, 64, 447-453.	4.4	239
36	Techno-economic analysis of a stand-alone hybrid renewable energy system with hydrogen production and storage options. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7652-7664.	3.8	238

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37	Efficiency analysis of a cogeneration and district energy system. Applied Thermal Engineering, 2005, 25, 147-159.	3.0	237
38	Thermodynamic modeling of a gas turbine cycle combined with a solid oxide fuel cell. International Journal of Hydrogen Energy, 2008, 33, 5811-5822.	3.8	233
39	Exergoeconomic analysis of power plants operating on various fuels. Applied Thermal Engineering, 2003, 23, 643-658.	3.0	231
40	Comparative life cycle assessment of various ammonia production methods. Journal of Cleaner Production, 2016, 135, 1379-1395.	4.6	230
41	Development and assessment of an integrated biomass-based multi-generation energy system. Energy, 2013, 56, 155-166.	4.5	227
42	Hydrogen as a renewable and sustainable solution in reducing global fossil fuel consumption. International Journal of Hydrogen Energy, 2008, 33, 4209-4222.	3.8	226
43	A review on methanol crossover in direct methanol fuel cells: challenges and achievements. International Journal of Energy Research, 2011, 35, 1213-1228.	2.2	217
44	Exergy cost analysis of thermal systems and processes. Energy Conversion and Management, 2003, 44, 1633-1651.	4.4	215
45	Exergy modeling of a new solar driven trigeneration system. Solar Energy, 2011, 85, 2228-2243.	2.9	211
46	Thermodynamic modeling of direct internal reforming solid oxide fuel cells operating with syngas. International Journal of Hydrogen Energy, 2007, 32, 787-795.	3.8	207
47	Energy and exergy efficiency comparison of horizontal and vertical axis wind turbines. Renewable Energy, 2010, 35, 2102-2113.	4.3	207
48	Understanding energy and exergy efficiencies for improved energy management in power plants. Energy Policy, 2007, 35, 3967-3978.	4.2	205
49	Exergy analysis of a thermal power plant with measured boiler and turbine losses. Applied Thermal Engineering, 2010, 30, 970-976.	3.0	205
50	Performance analysis of photovoltaic systems: A review. Renewable and Sustainable Energy Reviews, 2009, 13, 1884-1897.	8.2	203
51	Life cycle assessment of hydrogen fuel cell and gasoline vehicles. International Journal of Hydrogen Energy, 2006, 31, 337-352.	3.8	202
52	Smart energy solutions with hydrogen options. International Journal of Hydrogen Energy, 2018, 43, 8579-8599.	3.8	202
53	Performance assessment of a novel system using parabolic trough solar collectors for combined cooling, heating, and power production. Renewable Energy, 2012, 48, 161-172.	4.3	200
54	Analysis of the electricity demand trends amidst the COVID-19 coronavirus pandemic. Energy Research and Social Science, 2020, 68, 101682.	3.0	199

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55	Thermodynamic analysis and thermoeconomic optimization of a dual pressure combined cycle power plant with a supplementary firing unit. <i>Energy Conversion and Management</i> , 2011, 52, 2296-2308.	4.4	197
56	Thermal modeling and validation of temperature distributions in a prismatic lithium-ion battery at different discharge rates and varying boundary conditions. <i>Applied Thermal Engineering</i> , 2016, 96, 190-199.	3.0	197
57	Experimental and theoretical investigations of heat generation rates for a water cooled LiFePO <sub>4</sub> battery. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 1093-1102.	2.5	195
58	Exergy and exergoeconomic analyses and optimization of geothermal organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2013, 59, 435-444.	3.0	194
59	A worldwide perspective on energy, environment and sustainable development. <i>International Journal of Energy Research</i> , 1998, 22, 1305-1321.	2.2	192
60	Recent Canadian advances in nuclear-based hydrogen production and the thermochemical Cu-Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2901-2917.	3.8	192
61	Modeling of passive thermal management for electric vehicle battery packs with PCM between cells. <i>Applied Thermal Engineering</i> , 2014, 73, 307-316.	3.0	192
62	Thermodynamic and exergoenvironmental analyses, and multi-objective optimization of a gas turbine power plant. <i>Applied Thermal Engineering</i> , 2011, 31, 2529-2540.	3.0	188
63	Exergoenvironmental analysis and optimization of a cogeneration plant system using Multimodal Genetic Algorithm (MGA). <i>Energy</i> , 2010, 35, 5161-5172.	4.5	186
64	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
65	A comprehensive review on hydrogen production from coal gasification: Challenges and Opportunities. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25385-25412.	3.8	186
66	Innovation in hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14843-14864.	3.8	185
67	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
68	Energy analysis of a trigeneration plant based on solid oxide fuel cell and organic Rankine cycle. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5104-5113.	3.8	179
69	Exergy analysis of waste emissions. <i>International Journal of Energy Research</i> , 1999, 23, 1153-1163.	2.2	175
70	Development and analysis of a novel biomass-based integrated system for multigeneration with hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3511-3526.	3.8	175
71	Heat transfer analysis of phase change process in a finned-tube thermal energy storage system using artificial neural network. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3163-3175.	2.5	172
72	Exergy analysis of an integrated solid oxide fuel cell and organic Rankine cycle for cooling, heating and power production. <i>Journal of Power Sources</i> , 2010, 195, 2346-2354.	4.0	172

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73	Thermodynamic assessment of photovoltaic systems. <i>Solar Energy</i> , 2009, 83, 1139-1149.	2.9	171
74	Energy and exergy analyses of hydrogen production by coal gasification. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2592-2600.	3.8	171
75	A review on photoelectrochemical hydrogen production systems: Challenges and future directions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2474-2507.	3.8	169
76	Exergy analysis of hydrogen production from biomass gasification. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4981-4990.	3.8	166
77	Sustainable hydrogen production options and the role of IAHE. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16266-16286.	3.8	165
78	Multi-objective exergy-based optimization of a polygeneration energy system using an evolutionary algorithm. <i>Energy</i> , 2012, 46, 21-31.	4.5	165
79	Analysis of mobility trends during the COVID-19 coronavirus pandemic: Exploring the impacts on global aviation and travel in selected cities. <i>Energy Research and Social Science</i> , 2020, 68, 101693.	3.0	165
80	Progress in green ammonia production as potential carbon-free fuel. <i>Fuel</i> , 2021, 299, 120845.	3.4	161
81	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
82	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
83	Energy and exergy analyses of a biomass trigeneration system using an organic Rankine cycle. <i>Energy</i> , 2012, 45, 975-985.	4.5	156
84	Thermoeconomic multi-objective optimization of a novel biomass-based integrated energy system. <i>Energy</i> , 2014, 68, 958-970.	4.5	155
85	Comparative assessment of renewable energy-based hydrogen production methods. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110192.	8.2	155
86	Thermodynamic analysis of reheat cycle steam power plants. <i>International Journal of Energy Research</i> , 2001, 25, 727-739.	2.2	154
87	Renewable-energy-based multigeneration systems. <i>International Journal of Energy Research</i> , 2012, 36, 1403-1415.	2.2	154
88	Energy and Environmental Impacts: Present and Future Perspectives. <i>Energy Sources Part A Recovery, Utilization, and Environmental Effects</i> , 1998, 20, 427-453.	0.5	153
89	Energy and exergy analyses of a solar-biomass integrated cycle for multigeneration. <i>Solar Energy</i> , 2015, 112, 290-299.	2.9	152
90	Mathematical modeling of planar solid oxide fuel cells. <i>Journal of Power Sources</i> , 2006, 161, 1012-1022.	4.0	150

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91	Thermodynamic assessment of geothermal energy use in hydrogen production. International Journal of Hydrogen Energy, 2009, 34, 2925-2939.	3.8	149
92	Performance analyses of sensible heat storage systems for thermal applications. International Journal of Energy Research, 1997, 21, 1157-1171.	2.2	148
93	Exergy methods for assessing and comparing thermal storage systems. International Journal of Energy Research, 2003, 27, 415-430.	2.2	148
94	Development of some exergetic parameters for PEM fuel cells for measuring environmental impact and sustainability. International Journal of Hydrogen Energy, 2009, 34, 3858-3872.	3.8	148
95	A review on selected heterogeneous photocatalysts for hydrogen production. International Journal of Energy Research, 2014, 38, 1903-1920.	2.2	148
96	Environmental impact assessment and comparison of some hydrogen production options. International Journal of Hydrogen Energy, 2015, 40, 6976-6987.	3.8	147
97	Thermal and electrical performance evaluations of series connected Li-ion batteries in a pack with liquid cooling. Applied Thermal Engineering, 2018, 129, 472-481.	3.0	144
98	Life cycle environmental impact assessments and comparisons of alternative fuels for clean vehicles. Resources, Conservation and Recycling, 2018, 132, 141-157.	5.3	142
99	Trigeneration: A comprehensive review based on prime movers. International Journal of Energy Research, 2011, 35, 233-258.	2.2	141
100	Thermodynamic analysis of a novel ammonia-water trilateral Rankine cycle. Thermochemica Acta, 2008, 477, 7-15.	1.2	140
101	Energy and exergy use in public and private sector of Saudi Arabia. Energy Policy, 2004, 32, 1615-1624.	4.2	139
102	Thermodynamic analysis of hydrogen production from biomass gasification. International Journal of Hydrogen Energy, 2010, 35, 4970-4980.	3.8	139
103	A review of novel thermal management systems for batteries. International Journal of Energy Research, 2018, 42, 3182-3205.	2.2	138
104	Comparative performance analysis of low-temperature Organic Rankine Cycle (ORC) using pure and zeotropic working fluids. Applied Thermal Engineering, 2013, 54, 35-42.	3.0	137
105	Assessment of CO <sub>2</sub> capture options from various points in steam methane reforming for hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 20266-20275.	3.8	137
106	A Review on Thin-Layer Drying-Curve Equations. Drying Technology, 2014, 32, 757-773.	1.7	137
107	Smart energy systems for a sustainable future. Applied Energy, 2017, 194, 225-235.	5.1	135
108	Performance assessment of cogeneration plants. Energy Conversion and Management, 2009, 50, 76-81.	4.4	133

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109	Exergoeconomic, enviroeconomic and sustainability analyses of a novel air cooler. Energy and Buildings, 2012, 55, 747-756.	3.1	132
110	Thermodynamic analysis of a solar-based multi-generation system with hydrogen production. Applied Thermal Engineering, 2013, 51, 1235-1244.	3.0	131
111	Thermal energy storage systems as a key technology in energy conservation. International Journal of Energy Research, 2002, 26, 567-588.	2.2	130
112	Exergy as a Driver for Achieving Sustainability. International Journal of Green Energy, 2004, 1, 1-19.	2.1	129
113	Energetic and exergetic studies of a multigenerational solar-geothermal system. Applied Thermal Engineering, 2014, 71, 16-23.	3.0	128
114	Thermoeconomic analysis of a solar-biomass integrated multigeneration system for a community. Applied Thermal Engineering, 2017, 120, 645-653.	3.0	128
115	Key strategies of hydrogen energy systems for sustainability. International Journal of Hydrogen Energy, 2007, 32, 511-524.	3.8	126
116	Multi-objective optimization of a novel solar-based multigeneration energy system. Solar Energy, 2014, 108, 576-591.	2.9	125
117	Thermodynamic and thermoeconomic analyses of seawater reverse osmosis desalination plant with energy recovery. Energy, 2014, 64, 154-163.	4.5	125
118	Cycling degradation testing and analysis of a LiFePO <sub>4</sub> battery at actual conditions. International Journal of Energy Research, 2017, 41, 2565-2575.	2.2	125
119	Exergy analysis of fluidized bed drying of moist particles. Exergy an International Journal, 2002, 2, 87-98.	0.7	124
120	Clean fuel options with hydrogen for sea transportation: A life cycle approach. International Journal of Hydrogen Energy, 2018, 43, 1179-1193.	3.8	124
121	Environmental and economic aspects of hydrogen production and utilization in fuel cell vehicles. Journal of Power Sources, 2006, 157, 411-421.	4.0	123
122	A comprehensive review on power-to-gas with hydrogen options for cleaner applications. International Journal of Hydrogen Energy, 2021, 46, 31511-31522.	3.8	123
123	Cost assessment and evaluation of various hydrogen delivery scenarios. International Journal of Hydrogen Energy, 2018, 43, 10420-10430.	3.8	123
124	Greenhouse gas emissions reduction by use of wind and solar energies for hydrogen and electricity production: Economic factors. International Journal of Hydrogen Energy, 2007, 32, 927-931.	3.8	122
125	Canada's program on nuclear hydrogen production and the thermochemical Cu-Cl cycle. International Journal of Hydrogen Energy, 2010, 35, 10905-10926.	3.8	121
126	Numerical modeling of heat and mass transfer during forced convection drying of rectangular moist objects. International Journal of Heat and Mass Transfer, 2006, 49, 3094-3103.	2.5	119



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127	Exergetic life cycle assessment of hydrogen production from renewables. Journal of Power Sources, 2007, 167, 461-471.	4.0	119
128	A perspective on thermal energy storage systems for solar energy applications. International Journal of Energy Research, 1996, 20, 547-557.	2.2	117
129	Life cycle evaluation of hydrogen and other potential fuels for aircrafts. International Journal of Hydrogen Energy, 2017, 42, 10722-10738.	3.8	116
130	Thermodynamic assessment of an integrated solar power tower and coal gasification system for multi-generation purposes. Energy Conversion and Management, 2013, 76, 1061-1072.	4.4	115
131	Performance assessment and optimization of a novel integrated multigeneration system for residential buildings. Energy and Buildings, 2013, 67, 568-578.	3.1	115
132	Analysis and performance assessment of a new solar-based multigeneration system integrated with ammonia fuel cell and solid oxide fuel cell-gas turbine combined cycle. Journal of Power Sources, 2017, 370, 138-154.	4.0	115
133	Development of a new solar and geothermal based combined system for hydrogen production. Solar Energy, 2016, 127, 269-284.	2.9	114
134	On energetic, exergetic and environmental aspects of drying systems. International Journal of Energy Research, 2002, 26, 717-727.	2.2	113
135	Thermodynamics, Exergy and Environmental Impact. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2000, 22, 723-732.	0.5	111
136	Thermodynamic performance assessment of a novel air cooling cycle: Maisotsenko cycle. International Journal of Refrigeration, 2011, 34, 980-990.	1.8	111
137	Energy and exergy analyses of a new geothermal solar energy based system. Solar Energy, 2016, 134, 95-106.	2.9	111
138	Transient electrochemical heat transfer modeling and experimental validation of a large sized LiFePO <sub>4</sub> /graphite battery. International Journal of Heat and Mass Transfer, 2017, 109, 1239-1251.	2.5	111
139	Development, analysis and performance assessment of a combined solar and geothermal energy-based integrated system for multigeneration. Solar Energy, 2017, 147, 328-343.	2.9	111
140	Thermodynamic analysis of a combined gas turbine power system with a solid oxide fuel cell through exergy. Thermochimica Acta, 2008, 480, 1-9.	1.2	109
141	Performance investigation of a solar pond. Applied Thermal Engineering, 2006, 26, 727-735.	3.0	106
142	Performance evaluation of direct methanol fuel cells for portable applications. Journal of Power Sources, 2009, 187, 509-516.	4.0	104
143	Steam and air fed biomass gasification: Comparisons based on energy and exergy. International Journal of Hydrogen Energy, 2012, 37, 16446-16452.	3.8	104
144	A renewable source based hydrogen energy system for residential applications. International Journal of Hydrogen Energy, 2018, 43, 5842-5851.	3.8	104

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145	Impact assessment and efficiency evaluation of hydrogen production methods. International Journal of Energy Research, 2015, 39, 1757-1768.	2.2	103
146	Experimental and numerical investigation of heat and mass transfer during drying of Hayward kiwi fruits ( <i>Actinidia Deliciosa</i> Planch). Journal of Food Engineering, 2008, 88, 323-330.	2.7	102
147	Cost analysis of a thermochemical Cu-Cl pilot plant for nuclear-based hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 6006-6020.	3.8	102
148	Energy and exergy analyses of an integrated SOFC and coal gasification system. International Journal of Hydrogen Energy, 2012, 37, 1689-1697.	3.8	102
149	Assessment and optimization of an integrated wind power system for hydrogen and methane production. Energy Conversion and Management, 2018, 177, 693-703.	4.4	102
150	A modelling study for moisture diffusivities and moisture transfer coefficients in drying of solid objects. International Journal of Energy Research, 1996, 20, 531-539.	2.2	101
151	Performance analysis of a PEM fuel cell unit in a solar hydrogen system. International Journal of Hydrogen Energy, 2008, 33, 7538-7552.	3.8	101
152	A comparative life cycle analysis of hydrogen production via thermochemical water splitting using a Cu-Cl cycle. International Journal of Hydrogen Energy, 2011, 36, 11321-11327.	3.8	101
153	Integration of renewable energy based multigeneration system with desalination. Desalination, 2017, 404, 72-78.	4.0	101
154	A review on macro-level modeling of planar solid oxide fuel cells. International Journal of Energy Research, 2008, 32, 336-355.	2.2	100
155	Performance investigation of an integrated wind energy system for co-generation of power and hydrogen. International Journal of Hydrogen Energy, 2018, 43, 9153-9164.	3.8	100
156	Renewable energy options for buildings: Case studies. Energy and Buildings, 2011, 43, 56-65.	3.1	99
157	Design and analysis of a solar tower based integrated system using high temperature electrolyzer for hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 8042-8056.	3.8	99
158	A review and comparative assessment of direct ammonia fuel cells. Thermal Science and Engineering Progress, 2018, 5, 568-578.	1.3	99
159	Thermoeconomic analysis of power plants: an application to a coal fired electrical generating station. Energy Conversion and Management, 2003, 44, 2743-2761.	4.4	98
160	Solar hydrogen production: A comparative performance assessment. International Journal of Hydrogen Energy, 2011, 36, 11246-11257.	3.8	98
161	Energy and exergy utilization in transportation sector of Saudi Arabia. Applied Thermal Engineering, 2004, 24, 525-538.	3.0	97
162	Greenhouse gas emission and exergy assessments of an integrated organic Rankine cycle with a biomass combustor for combined cooling, heating and power production. Applied Thermal Engineering, 2011, 31, 439-446.	3.0	97

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163	Energy, exergy and sustainability analyses of hybrid renewable energy based hydrogen and electricity production and storage systems: Modeling and case study. <i>Applied Thermal Engineering</i> , 2013, 61, 784-798.	3.0	97
164	Development and analysis of a solar and wind energy based multigeneration system. <i>Solar Energy</i> , 2015, 122, 1279-1295.	2.9	97
165	Analysis of sectoral energy and exergy use of Saudi Arabia. <i>International Journal of Energy Research</i> , 2004, 28, 205-243.	2.2	96
166	Development of an integrated renewable energy system for multigeneration. <i>Energy</i> , 2014, 78, 196-204.	4.5	96
167	Exergetic assessment of solar hydrogen production methods. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4901-4908.	3.8	95
168	Thermodynamic analysis of wind energy. <i>International Journal of Energy Research</i> , 2006, 30, 553-566.	2.2	94
169	Impact Assessment and Environmental Evaluation of Various Ammonia Production Processes. <i>Environmental Management</i> , 2017, 59, 842-855.	1.2	94
170	An Analytical Model for Moisture Diffusion in Solid Objects During Drying. <i>Drying Technology</i> , 1995, 13, 425-435.	1.7	93
171	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
172	Exergetic performance analysis of a PEM fuel cell. <i>International Journal of Energy Research</i> , 2006, 30, 307-321.	2.2	92
173	Life cycle assessment of hydrogen production from biomass gasification systems. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14026-14039.	3.8	92
174	Development of a new Biâ€“Di correlation for solids drying. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 3065-3069.	2.5	91
175	Effect of gasification agent on the performance of solid oxide fuel cell and biomass gasification systems. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5001-5009.	3.8	91
176	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
177	Greenhouse gas emissions assessment of hydrogen and kerosene-fueled aircraft propulsion. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1363-1369.	3.8	90
178	Exergy as a potential tool for sustainable drying systems. <i>Sustainable Cities and Society</i> , 2011, 1, 91-96.	5.1	90
179	A review on biomass-based hydrogen production and potential applications. <i>International Journal of Energy Research</i> , 2012, 36, 415-455.	2.2	90
180	Hybrid solarâ€“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

#	ARTICLE	IF	CITATIONS
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182	Performance evaluation of an SOFC based trigeneration system using various gaseous fuels from biomass gasification. International Journal of Hydrogen Energy, 2015, 40, 7798-7807.	3.8	90
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