

Ibrahim Dincer

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1,107
papers

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citations

101
h-index

160
g-index

1,140
ext. papers

53,898
ext. citations

6.1
avg, IF

8.86
L-index

#	Paper	IF	Citations
1107	Renewable energy and sustainable development: a crucial review. <i>Renewable and Sustainable Energy Reviews</i> , 2000 , 4, 157-175	16.2	1177
1106	Review and evaluation of hydrogen production methods for better sustainability. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 11094-11111	6.7	1101
1105	Green methods for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1954-1971	6.7	547
1104	Comparative assessment of hydrogen production methods from renewable and non-renewable sources. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1-12	6.7	466
1103	Role of exergy in increasing efficiency and sustainability and reducing environmental impact. <i>Energy Policy</i> , 2008 , 36, 128-137	7.2	442
1102	The role of exergy in energy policy making. <i>Energy Policy</i> , 2002 , 30, 137-149	7.2	392
1101	Using ammonia as a sustainable fuel. <i>Journal of Power Sources</i> , 2008 , 185, 459-465	8.9	387
1100	On hydrogen and hydrogen energy strategies. <i>Renewable and Sustainable Energy Reviews</i> , 2005 , 9, 255-276	6.2	375
1099	Biomass-based hydrogen production: A review and analysis. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8799-8817	6.7	362
1098	Exergy, exergoeconomic and environmental analyses and evolutionary algorithm based multi-objective optimization of combined cycle power plants. <i>Energy</i> , 2011 , 36, 5886-5898	7.9	356
1097	Energy, Entropy and Exergy Concepts and Their Roles in Thermal Engineering. <i>Entropy</i> , 2001 , 3, 116-149	2.8	352
1096	On thermal energy storage systems and applications in buildings. <i>Energy and Buildings</i> , 2002 , 34, 377-388	3.8	317
1095	A review on clean energy solutions for better sustainability. <i>International Journal of Energy Research</i> , 2015 , 39, 585-606	4.5	300
1094	Review and evaluation of hydrogen production options for better environment. <i>Journal of Cleaner Production</i> , 2019 , 218, 835-849	10.3	298
1093	Review of photocatalytic water-splitting methods for sustainable hydrogen production. <i>International Journal of Energy Research</i> , 2016 , 40, 1449-1473	4.5	297
1092	Ammonia as a green fuel and hydrogen source for vehicular applications. <i>Fuel Processing Technology</i> , 2009 , 90, 729-737	7.2	289
1091	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	33.6	288

1090	Life cycle assessment of various hydrogen production methods. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2071-2080	6.7	251
1089	Economic and environmental comparison of conventional, hybrid, electric and hydrogen fuel cell vehicles. <i>Journal of Power Sources</i> , 2006 , 159, 1186-1193	8.9	251
1088	Thermodynamic aspects of renewables and sustainable development. <i>Renewable and Sustainable Energy Reviews</i> , 2005 , 9, 169-189	16.2	247
1087	Environmental and sustainability aspects of hydrogen and fuel cell systems. <i>International Journal of Energy Research</i> , 2007 , 31, 29-55	4.5	237
1086	Exergy as the confluence of energy, environment and sustainable development. <i>Exergy an International Journal</i> , 2001 , 1, 3-13		228
1085	A new model for thermodynamic analysis of a drying process. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 645-652	4.9	224
1084	Environmental impacts of energy. <i>Energy Policy</i> , 1999 , 27, 845-854	7.2	223
1083	Technical, environmental and exergetic aspects of hydrogen energy systems. <i>International Journal of Hydrogen Energy</i> , 2002 , 27, 265-285	6.7	212
1082	ON EXERGY AND ENVIRONMENTAL IMPACT. <i>International Journal of Energy Research</i> , 1997 , 21, 643-654	4.5	207
1081	Efficiency analysis of a cogeneration and district energy system. <i>Applied Thermal Engineering</i> , 2005 , 25, 147-159	5.8	204
1080	Exergoeconomic analysis of power plants operating on various fuels. <i>Applied Thermal Engineering</i> , 2003 , 23, 643-658	5.8	203
1079	Exergo-environmental analysis of an integrated organic Rankine cycle for trigeneration. <i>Energy Conversion and Management</i> , 2012 , 64, 447-453	10.6	193
1078	Thermodynamic modeling of a gas turbine cycle combined with a solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5811-5822	6.7	191
1077	A review on methanol crossover in direct methanol fuel cells: challenges and achievements. <i>International Journal of Energy Research</i> , 2011 , 35, 1213-1228	4.5	182
1076	Exergy cost-energy mass analysis of thermal systems and processes. <i>Energy Conversion and Management</i> , 2003 , 44, 1633-1651	10.6	180
1075	Energy, environment and sustainable development. <i>Applied Energy</i> , 1999 , 64, 427-440	10.7	177
1074	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	10.6	174
1073	Green energy strategies for sustainable development. <i>Energy Policy</i> , 2006 , 34, 3623-3633	7.2	173

1072	Thermodynamic modeling of direct internal reforming solid oxide fuel cells operating with syngas. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 787-795	6.7	171
1071	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	4.9	170
1070	Understanding energy and exergy efficiencies for improved energy management in power plants. <i>Energy Policy</i> , 2007 , 35, 3967-3978	7.2	170
1069	Life cycle assessment of hydrogen fuel cell and gasoline vehicles. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 337-352	6.7	170
1068	Development and assessment of an integrated biomass-based multi-generation energy system. <i>Energy</i> , 2013 , 56, 155-166	7.9	168
1067	Exergy modeling of a new solar driven trigeneration system. <i>Solar Energy</i> , 2011 , 85, 2228-2243	6.8	168
1066	Hydrogen as a renewable and sustainable solution in reducing global fossil fuel consumption. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4209-4222	6.7	167
1065	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	6.7	164
1064	Performance assessment of a novel system using parabolic trough solar collectors for combined cooling, heating, and power production. <i>Renewable Energy</i> , 2012 , 48, 161-172	8.1	164
1063	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	6.7	163
1062	Exergy analysis of a thermal power plant with measured boiler and turbine losses. <i>Applied Thermal Engineering</i> , 2010 , 30, 970-976	5.8	163
1061	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	5.8	162
1060	Performance analysis of photovoltaic systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1884-1897	16.2	162
1059	A worldwide perspective on energy, environment and sustainable development. <i>International Journal of Energy Research</i> , 1998 , 22, 1305-1321	4.5	161
1058	Exergy and exergoeconomic analyses and optimization of geothermal organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2013 , 59, 435-444	5.8	158
1057	Multi-objective exergy-based optimization of a polygeneration energy system using an evolutionary algorithm. <i>Energy</i> , 2012 , 46, 21-31	7.9	156
1056	Thermodynamic and exergoenvironmental analyses, and multi-objective optimization of a gas turbine power plant. <i>Applied Thermal Engineering</i> , 2011 , 31, 2529-2540	5.8	156
1055	Recent Canadian advances in nuclear-based hydrogen production and the thermochemical CuCl cycle. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2901-2917	6.7	154

1054	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	6.7	153
1053	Exergoenvironmental analysis and optimization of a cogeneration plant system using Multimodal Genetic Algorithm (MGA). <i>Energy</i> , 2010 , 35, 5161-5172	7.9	153
1052	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	8.9	152
1051	Energy and exergy efficiency comparison of horizontal and vertical axis wind turbines. <i>Renewable Energy</i> , 2010 , 35, 2102-2113	8.1	151
1050	Modeling of passive thermal management for electric vehicle battery packs with PCM between cells. <i>Applied Thermal Engineering</i> , 2014 , 73, 307-316	5.8	150
1049	Exergy analysis of waste emissions. <i>International Journal of Energy Research</i> , 1999 , 23, 1153-1163	4.5	150
1048	A review and comparative evaluation of thermochemical water splitting cycles for hydrogen production. <i>Energy Conversion and Management</i> , 2020 , 205, 112182	10.6	149
1047	Thermodynamic assessment of photovoltaic systems. <i>Solar Energy</i> , 2009 , 83, 1139-1149	6.8	146
1046	Comparative life cycle assessment of various ammonia production methods. <i>Journal of Cleaner Production</i> , 2016 , 135, 1379-1395	10.3	146
1045	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	5.8	142
1044	Thermodynamic modeling and multi-objective evolutionary-based optimization of a new multigeneration energy system. <i>Energy Conversion and Management</i> , 2013 , 76, 282-300	10.6	142
1043	Experimental and theoretical investigations of heat generation rates for a water cooled LiFePO4 battery. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 1093-1102	4.9	139
1042	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	4.9	139
1041	Greenhouse gas emission and exergo-environmental analyses of a trigeneration energy system. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 1540-1549	4.2	135
1040	Innovation in hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 14843-14864	6.7	134
1039	Exergy analysis of hydrogen production from biomass gasification. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4981-4990	6.7	133
1038	Smart energy solutions with hydrogen options. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 8579-8599	6.7	130
1037	Mathematical modeling of planar solid oxide fuel cells. <i>Journal of Power Sources</i> , 2006 , 161, 1012-1022	8.9	129

1036	Trigeneration: A comprehensive review based on prime movers. <i>International Journal of Energy Research</i> , 2011 , 35, 233-258	4.5	128
1035	Thermodynamic analysis of a novel ammonia-water tri-lateral Rankine cycle. <i>Thermochimica Acta</i> , 2008 , 477, 7-15	2.9	128
1034	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	4.5	128
1033	Sustainable hydrogen production options and the role of IAHE. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16266-16286	6.7	127
1032	Renewable-energy-based multigeneration systems. <i>International Journal of Energy Research</i> , 2012 , 36, 1403-1415	4.5	126
1031	Energy and exergy analyses of a biomass trigeneration system using an organic Rankine cycle. <i>Energy</i> , 2012 , 45, 975-985	7.9	124
1030	Thermodynamic analysis of hydrogen production from biomass gasification. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4970-4980	6.7	124
1029	Energy and exergy use in public and private sector of Saudi Arabia. <i>Energy Policy</i> , 2004 , 32, 1615-1624	7.2	124
1028	Performance analyses of sensible heat storage systems for thermal applications. <i>International Journal of Energy Research</i> , 1997 , 21, 1157-1171	4.5	120
1027	Exergy methods for assessing and comparing thermal storage systems. <i>International Journal of Energy Research</i> , 2003 , 27, 415-430	4.5	120
1026	Thermodynamic analysis of reheat cycle steam power plants. <i>International Journal of Energy Research</i> , 2001 , 25, 727-739	4.5	120
1025	A review on clean ammonia as a potential fuel for power generators. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 103, 96-108	16.2	120
1024	Analysis of the electricity demand trends amidst the COVID-19 coronavirus pandemic. <i>Energy Research and Social Science</i> , 2020 , 68, 101682	7.7	119
1023	Thermodynamic assessment of geothermal energy use in hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2925-2939	6.7	119
1022	Comparative performance analysis of low-temperature Organic Rankine Cycle (ORC) using pure and zeotropic working fluids. <i>Applied Thermal Engineering</i> , 2013 , 54, 35-42	5.8	118
1021	Energy and exergy analyses of a solar-biomass integrated cycle for multigeneration. <i>Solar Energy</i> , 2015 , 112, 290-299	6.8	117
1020	Development of some exergetic parameters for PEM fuel cells for measuring environmental impact and sustainability. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3858-3872	6.7	116
1019	Energy and Environmental Impacts: Present and Future Perspectives. <i>Energy Sources Part A Recovery, Utilization, and Environmental Effects</i> , 1998 , 20, 427-453		116

1018	Thermoeconomic multi-objective optimization of a novel biomass-based integrated energy system. <i>Energy</i> , 2014 , 68, 958-970	7.9	115
1017	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	6.7	113
1016	Performance assessment of cogeneration plants. <i>Energy Conversion and Management</i> , 2009 , 50, 76-81	10.6	112
1015	Exergy as a Driver for Achieving Sustainability. <i>International Journal of Green Energy</i> , 2004 , 1, 1-19	3	111
1014	A review on selected heterogeneous photocatalysts for hydrogen production. <i>International Journal of Energy Research</i> , 2014 , 38, 1903-1920	4.5	110
1013	Energy and exergy analyses of hydrogen production by coal gasification. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2592-2600	6.7	107
1012	Thermal energy storage systems as a key technology in energy conservation. <i>International Journal of Energy Research</i> , 2002 , 26, 567-588	4.5	106
1011	Energetic and exergetic studies of a multigenerational solar-geothermal system. <i>Applied Thermal Engineering</i> , 2014 , 71, 16-23	5.8	105
1010	Exergoeconomic, enviroeconomic and sustainability analyses of a novel air cooler. <i>Energy and Buildings</i> , 2012 , 55, 747-756	7	105
1009	A review on photoelectrochemical hydrogen production systems: Challenges and future directions. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2474-2507	6.7	104
1008	Exergy analysis of fluidized bed drying of moist particles. <i>Exergy an International Journal</i> , 2002 , 2, 87-98		103
1007	A perspective on thermal energy storage systems for solar energy applications. <i>International Journal of Energy Research</i> , 1996 , 20, 547-557	4.5	102
1006	Smart energy systems for a sustainable future. <i>Applied Energy</i> , 2017 , 194, 225-235	10.7	101
1005	Thermodynamic analysis of a solar-based multi-generation system with hydrogen production. <i>Applied Thermal Engineering</i> , 2013 , 51, 1235-1244	5.8	101
1004	Exergetic life cycle assessment of hydrogen production from renewables. <i>Journal of Power Sources</i> , 2007 , 167, 461-471	8.9	101
1003	Numerical modeling of heat and mass transfer during forced convection drying of rectangular moist objects. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 3094-3103	4.9	101
1002	Life cycle environmental impact assessments and comparisons of alternative fuels for clean vehicles. <i>Resources, Conservation and Recycling</i> , 2018 , 132, 141-157	11.9	100
1001	Cycling degradation testing and analysis of a LiFePO ₄ battery at actual conditions. <i>International Journal of Energy Research</i> , 2017 , 41, 2565-2575	4.5	100

1000	Key strategies of hydrogen energy systems for sustainability. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 511-524	6.7	100
999	Thermoeconomic analysis of a solar-biomass integrated multigeneration system for a community. <i>Applied Thermal Engineering</i> , 2017 , 120, 645-653	5.8	98
998	Thermodynamic and thermoeconomic analyses of seawater reverse osmosis desalination plant with energy recovery. <i>Energy</i> , 2014 , 64, 154-163	7.9	98
997	Thermodynamic assessment of an integrated solar power tower and coal gasification system for multi-generation purposes. <i>Energy Conversion and Management</i> , 2013 , 76, 1061-1072	10.6	98
996	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	8.9	96
995	On energetic, exergetic and environmental aspects of drying systems. <i>International Journal of Energy Research</i> , 2002 , 26, 717-727	4.5	96
994	2010 ,		96
993	A Review on Thin-Layer Drying-Curve Equations. <i>Drying Technology</i> , 2014 , 32, 757-773	2.6	95
992	Canada's program on nuclear hydrogen production and the thermochemical Cu-Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10905-10926	6.7	95
991	Performance evaluation of direct methanol fuel cells for portable applications. <i>Journal of Power Sources</i> , 2009 , 187, 509-516	8.9	94
990	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	6.7	93
989	Energy and exergy analyses of a new geothermal-solar energy based system. <i>Solar Energy</i> , 2016 , 134, 95-106	6.8	92
988	Energy and exergy analyses of an integrated SOFC and coal gasification system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1689-1697	6.7	91
987	Greenhouse gas emissions reduction by use of wind and solar energies for hydrogen and electricity production: Economic factors. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 927-931	6.7	91
986	A review on macro-level modeling of planar solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2008 , 32, 336-355	4.5	91
985	Thermodynamics, Exergy and Environmental Impact. <i>Energy Sources Part A Recovery, Utilization, and Environmental Effects</i> , 2000 , 22, 723-732		91
984	Environmental impact assessment and comparison of some hydrogen production options. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6976-6987	6.7	90
983	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	7.7	90

982	Renewable energy options for buildings: Case studies. <i>Energy and Buildings</i> , 2011 , 43, 56-65	7	89
981	Performance assessment and optimization of a novel integrated multigeneration system for residential buildings. <i>Energy and Buildings</i> , 2013 , 67, 568-578	7	88
980	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. <i>Journal of Power Sources</i> , 2017 , 370, 138-154	8.9	87
979	Greenhouse gas emission and exergy assessments of an integrated organic Rankine cycle with a biomass combustor for combined cooling, heating and power production. <i>Applied Thermal Engineering</i> , 2011 , 31, 439-446	5.8	87
978	Multi-objective optimization of a novel solar-based multigeneration energy system. <i>Solar Energy</i> , 2014 , 108, 576-591	6.8	86
977	Steam and air fed biomass gasification: Comparisons based on energy and exergy. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16446-16452	6.7	86
976	Environmental and economic aspects of hydrogen production and utilization in fuel cell vehicles. <i>Journal of Power Sources</i> , 2006 , 157, 411-421	8.9	86
975	Performance investigation of a solar pond. <i>Applied Thermal Engineering</i> , 2006 , 26, 727-735	5.8	85
974	Analysis of sectoral energy and exergy use of Saudi Arabia. <i>International Journal of Energy Research</i> , 2004 , 28, 205-243	4.5	85
973	Thermal and electrical performance evaluations of series connected Li-ion batteries in a pack with liquid cooling. <i>Applied Thermal Engineering</i> , 2018 , 129, 472-481	5.8	83
972	Development of a new solar and geothermal based combined system for hydrogen production. <i>Solar Energy</i> , 2016 , 127, 269-284	6.8	83
971	Development of an integrated renewable energy system for multigeneration. <i>Energy</i> , 2014 , 78, 196-204	7.9	83
970	Energy and exergy utilization in transportation sector of Saudi Arabia. <i>Applied Thermal Engineering</i> , 2004 , 24, 525-538	5.8	83
969	Development, analysis and performance assessment of a combined solar and geothermal energy-based integrated system for multigeneration. <i>Solar Energy</i> , 2017 , 147, 328-343	6.8	82
968	Experimental and numerical investigation of heat and mass transfer during drying of Hayward kiwi fruits (<i>Actinidia Deliciosa</i> Planch). <i>Journal of Food Engineering</i> , 2008 , 88, 323-330	6	82
967	Thermodynamic analysis of a combined gas turbine power system with a solid oxide fuel cell through exergy. <i>Thermochemica Acta</i> , 2008 , 480, 1-9	2.9	82
966	Performance evaluation of an SOFC based trigeneration system using various gaseous fuels from biomass gasification. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7798-7807	6.7	81
965	Thermodynamic analysis of wind energy. <i>International Journal of Energy Research</i> , 2006 , 30, 553-566	4.5	81

964	A modelling study for moisture diffusivities and moisture transfer coefficients in drying of solid objects. <i>International Journal of Energy Research</i> , 1996 , 20, 531-539	4.5	81
963	A review of novel thermal management systems for batteries. <i>International Journal of Energy Research</i> , 2018 , 42, 3182-3205	4.5	81
962	Performance analysis of a PEM fuel cell unit in a solarHydrogen system. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7538-7552	6.7	80
961	Cost analysis of a thermochemical CuCl pilot plant for nuclear-based hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6006-6020	6.7	79
960	Impact assessment and efficiency evaluation of hydrogen production methods. <i>International Journal of Energy Research</i> , 2015 , 39, 1757-1768	4.5	78
959	Thermodynamic performance assessment of a novel air cooling cycle: Maisotsenko cycle. <i>International Journal of Refrigeration</i> , 2011 , 34, 980-990	3.8	78
958	Effect of stratification on energy and exergy capacities in thermal storage systems. <i>International Journal of Energy Research</i> , 2004 , 28, 177-193	4.5	78
957	Evaluation and selection of energy storage systems for solar thermal applications. <i>International Journal of Energy Research</i> , 1999 , 23, 1017-1028	4.5	78
956	Transient electrochemical heat transfer modeling and experimental validation of a large sized LiFePO ₄ /graphite battery. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 1239-1251	4.9	77
955	A comparative life cycle analysis of hydrogen production via thermochemical water splitting using a CuCl cycle. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11321-11327	6.7	77
954	Thermoeconomic analysis of power plants: an application to a coal fired electrical generating station. <i>Energy Conversion and Management</i> , 2003 , 44, 2743-2761	10.6	77
953	Hybrid solarFuel cell combined heat and power systems for residential applications: Energy and exergy analyses. <i>Journal of Power Sources</i> , 2013 , 221, 372-380	8.9	76
952	Thermoeconomic optimization of three trigeneration systems using organic Rankine cycles: Part I Formulations. <i>Energy Conversion and Management</i> , 2013 , 69, 199-208	10.6	76
951	Exergetic assessment of solar hydrogen production methods. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4901-4908	6.7	75
950	An Analytical Model for Moisture Diffusion in Solid Objects During Drying. <i>Drying Technology</i> , 1995 , 13, 425-435	2.6	75
949	Assessment of CO ₂ capture options from various points in steam methane reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 20266-20275	6.7	74
948	Exergy as a potential tool for sustainable drying systems. <i>Sustainable Cities and Society</i> , 2011 , 1, 91-96	10.1	74
947	Cost and Entropy Generation Minimization of a Cross-Flow Plate Fin Heat Exchanger Using Multi-Objective Genetic Algorithm. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	74

946	Exergetic performance analysis of a PEM fuel cell. <i>International Journal of Energy Research</i> , 2006 , 30, 307-321	4.5	74
945	Assessment and optimization of an integrated wind power system for hydrogen and methane production. <i>Energy Conversion and Management</i> , 2018 , 177, 693-703	10.6	74
944	Solar hydrogen production: A comparative performance assessment. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11246-11257	6.7	73
943	A review on biomass-based hydrogen production and potential applications. <i>International Journal of Energy Research</i> , 2012 , 36, 415-455	4.5	72
942	Cost assessment and evaluation of various hydrogen delivery scenarios. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10420-10430	6.7	72
941	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	5.8	70
940	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	6.7	70
939	A renewable source based hydrogen energy system for residential applications. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 5842-5851	6.7	70
938	Development of a new BiDi correlation for solids drying. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 3065-3069	4.9	69
937	Energy and exergy analysis of Salihli geothermal district heating system in Manisa, Turkey. <i>International Journal of Energy Research</i> , 2005 , 29, 393-408	4.5	69
936	Clean fuel options with hydrogen for sea transportation: A life cycle approach. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1179-1193	6.7	69
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