Marc A Rosen

List of Publications by Citations

481 papers	16,809 citations	68 h-index	109 g-index
504 ext. papers	19,944 ext. citations	5.2 avg, IF	7.77 L-index

#	Paper	IF	Citations
481	Role of exergy in increasing efficiency and sustainability and reducing environmental impact. *Energy Policy*, **2008**, 36, 128-137	7.2	442
480	District heating and cooling: Review of technology and potential enhancements. *Applied Energy*, **2012**, 93, 2-10	10.7	415
479	A review of energy storage types, applications and recent developments. *Journal of Energy Storage*, **2020**, 27, 101047	7.8	361
478	Exergy, exergoeconomic and environmental analyses and evolutionary algorithm based multi-objective optimization of combined cycle power plants. *Energy*, **2011**, 36, 5886-5898	7.9	356
477	Geothermal heat pump systems: Status review and comparison with other heating options. *Applied Energy*, **2013**, 101, 341-348	10.7	347
476	Economic and environmental comparison of conventional, hybrid, electric and hydrogen fuel cell vehicles. *Journal of Power Sources*, **2006**, 159, 1186-1193	8.9	251
475	Thermodynamic aspects of renewables and sustainable development. *Renewable and Sustainable Energy Reviews*, **2005**, 9, 169-189	16.2	247
474	Exergy as the confluence of energy, environment and sustainable development. *Exergy an International Journal*, **2001**, 1, 3-13		228
473	A critical review of photovoltaic□thermal solar collectors for air heating. *Applied Energy*, **2011**, 88, 3603-3614	10.7	227
472	ON EXERGY AND ENVIRONMENTAL IMPACT. *International Journal of Energy Research*, **1997**, 21, 643-654	4.5	207
471	Efficiency analysis of a cogeneration and district energy system. *Applied Thermal Engineering*, **2005**, 25, 147-159	5.8	204
470	Exergo-environmental analysis of an integrated organic Rankine cycle for trigeneration. *Energy Conversion and Management*, **2012**, 64, 447-453	10.6	193
469	Sustainable Manufacturing and Design: Concepts, Practices and Needs. *Sustainability*, **2012**, 4, 154-174	3.6	192
468	Energy, environment and sustainable development. *Applied Energy*, **1999**, 64, 427-440	10.7	177
467	Understanding energy and exergy efficiencies for improved energy management in power plants. *Energy Policy*, **2007**, 35, 3967-3978	7.2	170
466	Life cycle assessment of hydrogen fuel cell and gasoline vehicles. *International Journal of Hydrogen Energy*, **2006**, 31, 337-352	6.7	170
465	Development and assessment of an integrated biomass-based multi-generation energy system. *Energy*, **2013**, 56, 155-166	7.9	168

464	Performance evaluation of a double pass PV/T solar air heater with and without fins. *Applied Thermal Engineering*, **2011**, 31, 1402-1410	5.8	168
463	Intelligent optimization to integrate a plug-in hybrid electric vehicle smart parking lot with renewable energy resources and enhance grid characteristics. *Energy Conversion and Management*, **2014**, 77, 250-261	10.6	164
462	Energy and exergy analyses of hydrogen production via solar-boosted ocean thermal energy conversion and PEM electrolysis. *International Journal of Hydrogen Energy*, **2013**, 38, 1795-1805	6.7	163
461	A worldwide perspective on energy, environment and sustainable development. *International Journal of Energy Research*, **1998**, 22, 1305-1321	4.5	161
460	Multi-objective exergy-based optimization of a polygeneration energy system using an evolutionary algorithm. *Energy*, **2012**, 46, 21-31	7.9	156
459	Advances in hydrogen production by thermochemical water decomposition: A review. *Energy*, **2010**, 35, 1068-1076	7.9	154
458	Exergy analysis of waste emissions. *International Journal of Energy Research*, **1999**, 23, 1153-1163	4.5	150
457	Thermodynamic modeling and multi-objective evolutionary-based optimization of a new multigeneration energy system. *Energy Conversion and Management*, **2013**, 76, 282-300	10.6	142
456	The prospects for hydrogen as an energy carrier: an overview of hydrogen energy and hydrogen energy systems. *Energy, Ecology and Environment*, **2016**, 1, 10-29	3.5	141
455	Greenhouse gas emission and exergo-environmental analyses of a trigeneration energy system. *International Journal of Greenhouse Gas Control*, **2011**, 5, 1540-1549	4.2	135
454	Review on use of phase change materials in battery thermal management for electric and hybrid electric vehicles. *International Journal of Energy Research*, **2016**, 40, 1011-1031	4.5	128
453	Energy and exergy assessments of a novel trigeneration system based on a solid oxide fuel cell. *Energy Conversion and Management*, **2014**, 87, 318-327	10.6	127
452	Thermodynamic analysis of hydrogen production from biomass gasification. *International Journal of Hydrogen Energy*, **2010**, 35, 4970-4980	6.7	124
451	Effect of varying dead-state properties on energy and exergy analyses of thermal systems. *International Journal of Thermal Sciences*, **2004**, 43, 121-133	4.1	124
450	Exergy methods for assessing and comparing thermal storage systems. *International Journal of Energy Research*, **2003**, 27, 415-430	4.5	120
449	Energy and exergy analyses of a solar-biomass integrated cycle for multigeneration. *Solar Energy*, **2015**, 112, 290-299	6.8	117
448	Thermodynamic analysis of solar photovoltaic cell systems. *Solar Energy Materials and Solar Cells*, **2007**, 91, 153-159	6.4	117
447	Thermoeconomic multi-objective optimization of a novel biomass-based integrated energy system. *Energy*, **2014**, 68, 958-970	7.9	115

446	Exergy as a Driver for Achieving Sustainability. *International Journal of Green Energy*, **2004**, 1, 1-19	3	111
445	Exergoeconomic comparison of double effect and combined ejector-double effect absorption refrigeration systems. *Applied Energy*, **2013**, 103, 700-711	10.7	108
444	Energy- and exergy-based comparison of coal-fired and nuclear steam power plants. *Exergy an International Journal*, **2001**, 1, 180-192		107
443	Energy and exergy analyses of a biomass-based hydrogen production system. *Bioresource Technology*, **2011**, 102, 8466-74	11	101
442	Exergetic life cycle assessment of hydrogen production from renewables. *Journal of Power Sources*, **2007**, 167, 461-471	8.9	101
441	Exergoeconomic analysis of double effect absorption refrigeration systems. *Energy Conversion and Management*, **2013**, 65, 13-25	10.6	99
440	Thermoeconomic analysis of a solar-biomass integrated multigeneration system for a community. *Applied Thermal Engineering*, **2017**, 120, 645-653	5.8	98
439	Novel thermal management system using boiling cooling for high-powered lithium-ion battery packs for hybrid electric vehicles. *Journal of Power Sources*, **2017**, 363, 291-303	8.9	96
438	**2010**,		96
437	EXERGY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT **2007**, 36-59		93
436	Opening the Black Box of Psychological Processes in the Science of Sustainable Development: A New Frontier. *European Journal of Sustainable Development Research*, **2018**, 2,	1.6	93
435	Economic analysis of standalone hybrid energy systems for application in Tehran, Iran. *International Journal of Hydrogen Energy*, **2016**, 41, 7732-7743	6.7	90
434	Performance assessment and optimization of a novel integrated multigeneration system for residential buildings. *Energy and Buildings*, **2013**, 67, 568-578	7	88
433	Multi-objective optimization of a novel solar-based multigeneration energy system. *Solar Energy*, **2014**, 108, 576-591	6.8	86
432	Thermal performance of integrated collector storage solar water heater with corrugated absorber surface. *Applied Thermal Engineering*, **2010**, 30, 1764-1768	5.8	86
431	Environmental and economic aspects of hydrogen production and utilization in fuel cell vehicles. *Journal of Power Sources*, **2006**, 157, 411-421	8.9	86
430	Feasibility of satisfying electrical energy needs with hybrid systems for a medium-size hotel on Kish Island, Iran. *Energy*, **2014**, 73, 856-865	7.9	85
429	Thermodynamic analysis of wind energy. *International Journal of Energy Research*, **2006**, 30, 553-566	4.5	81

428	A review of novel thermal management systems for batteries. *International Journal of Energy Research*, **2018**, 42, 3182-3205	4.5	81
427	Evaluation of wind energy potential in province of Bushehr, Iran. *Renewable and Sustainable Energy Reviews*, **2016**, 55, 455-466	16.2	80
426	Assessment of wind energy potential and economics in the north-western Iranian cities of Tabriz and Ardabil. *Renewable and Sustainable Energy Reviews*, **2015**, 45, 87-99	16.2	78
425	Sectoral Energy and Exergy Modeling of Turkey. *Journal of Energy Resources Technology, Transactions of the ASME*, **1997**, 119, 200-204	2.6	78
424	Effect of stratification on energy and exergy capacities in thermal storage systems. *International Journal of Energy Research*, **2004**, 28, 177-193	4.5	78
423	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	6.7	77
422	Thermoeconomic analysis of power plants: an application to a coal fired electrical generating station. *Energy Conversion and Management*, **2003**, 44, 2743-2761	10.6	77
421	Hybrid solar□fuel cell combined heat and power systems for residential applications: Energy and exergy analyses. *Journal of Power Sources*, **2013**, 221, 372-380	8.9	76
420	Allocating carbon dioxide emissions from cogeneration systems: descriptions of selected output-based methods. *Journal of Cleaner Production*, **2008**, 16, 171-177	10.3	76
419	Thermoeconomic optimization using an evolutionary algorithm of a trigeneration system driven by a solid oxide fuel cell. *Energy*, **2015**, 89, 191-204	7.9	75
418	Assessment of CO2 capture options from various points in steam methane reforming for hydrogen production. *International Journal of Hydrogen Energy*, **2014**, 39, 20266-20275	6.7	74
417	Using Exergy to Understand and Improve the Efficiency of Electrical Power Technologies. *Entropy*, **2009**, 11, 820-835	2.8	72
416	Exergetic evaluation of the renewability of a biofuel. *Exergy an International Journal*, **2001**, 1, 256-268		71
415	Assessment of metal pollution in urban road dusts from selected highways of the Greater Toronto Area in Canada. *Environmental Monitoring and Assessment*, **2013**, 185, 1847-58	3.1	70
414	Performance of ground heat exchangers: A comprehensive review of recent advances. *Energy*, **2019** , 178, 207-233	7.9	69
413	**2017**,		67
412	Integrated hydrogen production options based on renewable and nuclear energy sources. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 6059-6082	16.2	67
411	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. *Sustainability*, **2015**, 7, 2243-2255	3.6	64

410	Energy Sustainability: A Pragmatic Approach and Illustrations. *Sustainability*, **2009**, 1, 55-80	3.6	64
409	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	10.3	63
408	Exergoeconoenvironmental analysis as a new concept for developing thermodynamically, economically, and environmentally sound energy conversion systems. *Journal of Cleaner Production* , **2018**, 187, 190-204	10.3	63
407	Thermodynamic analysis of a novel combined cooling, heating and power system driven by solar energy. *Applied Thermal Engineering*, **2018**, 129, 1219-1229	5.8	63
406	Ten Years of Sustainability (2009 to 2018): A Bibliometric Overview. *Sustainability*, **2018**, 10, 1655	3.6	63
405	Hydrogen production from coal gasification for effective downstream CO2 capture. *International Journal of Hydrogen Energy*, **2010**, 35, 4933-4943	6.7	63
404	A study of industrial steam process heating through exergy analysis. *International Journal of Energy Research*, **2004**, 28, 917-930	4.5	63
403	Energy and exergy assessments of the hydrogen production step of a copper□hlorine thermochemical water splitting cycle driven by nuclear-based heat. *International Journal of Hydrogen Energy*, **2008**, 33, 6456-6466	6.7	62
402	Artificial neural network analysis of world green energy use. *Energy Policy*, **2007**, 35, 1731-1743	7.2	61
401	Consolidating exergoeconomic and exergoenvironmental analyses using the emergy concept for better understanding energy conversion systems. *Journal of Cleaner Production*, **2018**, 172, 696-708	10.3	60
400	Analysis and assessment of an integrated hydrogen energy system. *International Journal of Hydrogen Energy*, **2016**, 41, 7960-7967	6.7	58
399	First and second law analysis of ammonia/salt absorption refrigeration systems. *International Journal of Refrigeration*, **2014**, 40, 111-121	3.8	57
398	Examination of thermal interaction of multiple vertical ground heat exchangers. *Applied Energy*, **2012**, 97, 962-969	10.7	57
397	Energy, exergy, economic and advanced and extended exergy analyses of a wind turbine. *Energy Conversion and Management*, **2019**, 183, 369-381	10.6	56
396	Selection of Optimum Working Fluid for Organic Rankine Cycles by Exergy and Exergy-Economic Analyses. *Sustainability*, **2015**, 7, 15362-15383	3.6	56
395	Optimal Operation of a Grid-Connected Hybrid Renewable Energy System for Residential Applications. *Sustainability*, **2017**, 9, 1314	3.6	55
394	Sustainability aspects of hydrogen and fuel cell systems. *Energy for Sustainable Development*, **2011**, 15, 137-146	5.4	55
393	Techno-economic assessment of a renewable energy based integrated multigeneration system for green buildings. *Applied Thermal Engineering*, **2016**, 99, 1286-1294	5.8	53

392	An optimal versatile control approach for plug-in electric vehicles to integrate renewable energy sources and smart grids. *Energy*, **2017**, 134, 1053-1067	7.9	52
391	Development and analysis of a new renewable energy-based multi-generation system. *Energy*, **2015**, 79, 90-99	7.9	52
390	Performance assessment and optimization of a biomass-based solid oxide fuel cell and micro gas turbine system integrated with an organic Rankine cycle. *International Journal of Hydrogen Energy*, **2020**, 45, 6262-6277	6.7	52
389	Price-driven economic order systems from a thermodynamic point of view. *International Journal of Production Research*, **2004**, 42, 5167-5184	7.8	52
388	Appropriate Thermodynamic Performance Measures for Closed Systems for Thermal Energy Storage. *Journal of Solar Energy Engineering, Transactions of the ASME*, **1992**, 114, 100-105	2.3	52
387	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. *Energies*, **2016**, 9, 316	3.1	52
386	Exergy analysis of a fuel cell power system for transportation applications. *Exergy an International Journal*, **2001**, 1, 112-121		51
385	Sensitivity of exergy efficiencies of aerospace engines to reference environment selection. *Exergy an International Journal*, **2001**, 1, 91-99		50
384	Performance Analysis of a New Electricity and Freshwater Production System Based on an Integrated Gasification Combined Cycle and Multi-Effect Desalination. *Sustainability*, **2020**, 12, 7996	3.6	50
383	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	5.8	49
382	Exergy analysis of thermal energy storage in a district energy application. *Renewable Energy*, **2015**, 74, 848-854	8.1	49
381	Coupling of copper□hloride hybrid thermochemical water splitting cycle with a desalination plant for hydrogen production from nuclear energy. *International Journal of Hydrogen Energy*, **2010**, 35, 1560-1574	6.7	49
380	An analytical approach to evaluating the effect of thermal interaction of geothermal heat exchangers on ground heat pump efficiency. *Energy Conversion and Management*, **2014**, 78, 184-192	10.6	48
379	A holistic approach to sustainable development of energy, water and environment systems. *Journal of Cleaner Production*, **2017**, 155, 1-11	10.3	47
378	Comparative environmental impact and efficiency assessment of selected hydrogen production methods. *Environmental Impact Assessment Review*, **2013**, 42, 1-9	5.3	47
377	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	10.3	46
376	Energy and exergy analyses of cold thermal storage systems. *International Journal of Energy Research*, **1999**, 23, 1029-1038	4.5	46
375	Development and assessment of a novel integrated nuclear plant for electricity and hydrogen production. *Energy Conversion and Management*, **2017**, 134, 221-234	10.6	44

374	Thermodynamic analysis and comparison of combined ejector-absorption and single effect absorption refrigeration systems. *Applied Energy*, **2014**, 133, 335-346	10.7	44
373	Thermodynamic analysis of a hybrid geothermal heat pump system. *Geothermics*, **2011**, 40, 233-238	4.3	44
372	Factors Affecting Green Entrepreneurship Intentions in Business University Students in COVID-19 Pandemic Times: Case of Ecuador. *Sustainability*, **2021**, 13, 6447	3.6	43
371	Short-term wind speed forecasting using artificial neural networks for Tehran, Iran. *International Journal of Energy and Environmental Engineering*, **2016**, 7, 377-390	4	43
370	An integrated model for designing a solar community heating system with borehole thermal storage. *Energy for Sustainable Development*, **2017**, 36, 6-15	5.4	42
369	Energy and Exergy Analyses of a New Combined Cycle for Producing Electricity and Desalinated Water Using Geothermal Energy. *Sustainability*, **2014**, 6, 1796-1820	3.6	41
368	Experimental Investigation of Soil Thermal Conductivity Over a Wide Temperature Range. *International Journal of Thermophysics*, **2013**, 34, 1110-1129	2.1	41
367	Electrochemical modeling and performance evaluation of a new ammonia-based battery thermal management system for electric and hybrid electric vehicles. *Electrochimica Acta*, **2017**, 247, 171-182	6.7	41
366	Engineering Sustainability: A Technical Approach to Sustainability. *Sustainability*, **2012**, 4, 2270-2292	3.6	41
365	Exergetic environmental assessment of life cycle emissions for various automobiles and fuels. *Exergy an International Journal*, **2002**, 2, 283-294		41
364	Entropy production and exergy destruction: Part I-hierarchy of Earth's major constituencies. *International Journal of Hydrogen Energy*, **2003**, 28, 1307-1313	6.7	41
363	Expectations and Interests of University Students in COVID-19 Times about Sustainable Development Goals: Evidence from Colombia, Ecuador, Mexico, and Peru. *Sustainability*, **2021**, 13, 3306	3.6	41
362	Analysis and feasibility of an evaporative cooling system with diffusion-based sessile droplet evaporation for cooling microprocessors. *Applied Thermal Engineering*, **2017**, 125, 104-110	5.8	40
361	A Comparative Exergoeconomic Analysis of Waste Heat Recovery from a Gas Turbine-Modular Helium Reactor via Organic Rankine Cycles. *Sustainability*, **2014**, 6, 2474-2489	3.6	40
360	Review of underground coal gasification technologies and carbon capture. *International Journal of Energy and Environmental Engineering*, **2012**, 3, 16	4	40
359	Nuclear-based hydrogen production with a thermochemical copper-chlorine cycle and supercritical water reactor: equipment scale-up and process simulation. *International Journal of Energy Research*, **2012**, 36, 456-465	4.5	40
358	Exergoeconomic analysis of a thermochemical copper-chlorine cycle for hydrogen production using specific exergy cost (SPECO) method. *Thermochimica Acta*, **2010**, 497, 60-66	2.9	40
357	An exergy-cost-energy-mass analysis of a hybrid copper-chlorine thermochemical cycle for hydrogen production. *International Journal of Hydrogen Energy*, **2010**, 35, 4831-4838	6.7	39

356	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	2.3	39
355	Life cycle assessment of hydrogen production via thermochemical water splitting using multi-step Cu□Cl cycles. *Journal of Cleaner Production*, **2012**, 33, 202-216	10.3	38
354	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	10.6	38
353	Integrated collector-storage solar water heater with extended storage unit. *Applied Thermal Engineering*, **2011**, 31, 348-354	5.8	38
352	Comparative economic and life cycle assessment of solar-based hydrogen production for oil and gas industries. *Energy*, **2020**, 208, 118347	7.9	38
351	Heat and mass transfer modeling and assessment of a new battery cooling system. *International Journal of Heat and Mass Transfer*, **2018**, 126, 765-778	4.9	38
350	Analysis and assessment of novel liquid air energy storage system with district heating and cooling capabilities. *Energy*, **2017**, 141, 792-802	7.9	37
349	Development of a four-step Cu□Cl cycle for hydrogen production □Part I: Exergoeconomic and exergoenvironmental analyses. *International Journal of Hydrogen Energy*, **2016**, 41, 7814-7825	6.7	37
348	Aerospace systems and exergy analysis: applications and methodology development needs. *International Journal of Exergy*, **2004**, 1, 411	1.2	37
347	Thermodynamic Optimization of a Geothermal Power Plant with a Genetic Algorithm in Two Stages. *Processes*, **2020**, 8, 1277	2.9	37
346	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	4.4	36
345	Environmental evaluation of hydrogen production via thermochemical water splitting using the Cu□Cl Cycle: A parametric study. *International Journal of Hydrogen Energy*, **2011**, 36, 9514-9528	6.7	35
344	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	7.9	35
343	Sustainable development of energy, water and environment systems for future energy technologies and concepts. *Energy Conversion and Management*, **2016**, 125, 1-14	10.6	34
342	Influence of Technostress on Academic Performance of University Medicine Students in Peru during the COVID-19 Pandemic. *Sustainability*, **2021**, 13, 8949	3.6	34
341	Modeling and optimal design of an off-grid hybrid system for electricity generation using various biodiesel fuels: a case study for Davarzan, Iran. *Biofuels*, **2016**, 7, 699-712	2	33
340	A comparative study of the performance characteristics of double-effect absorption refrigeration systems. *International Journal of Energy Research*, **2012**, 36, 182-192	4.5	33
339	A new model to assess the environmental impact and sustainability of energy systems. *Journal of Cleaner Production*, **2015**, 103, 211-218	10.3	32

338	Thermodynamic Performance of Ice Thermal Energy Storage Systems. *Journal of Energy Resources Technology, Transactions of the ASME*, **2000**, 122, 205-211	2.6	32
337	A novel approach for performance improvement of liquid to vapor based battery cooling systems. *Energy Conversion and Management*, **2019**, 187, 191-204	10.6	31
336	Comparative life cycle assessment of hydrogen and other selected fuels. *International Journal of Hydrogen Energy*, **2012**, 37, 9933-9940	6.7	31
335	Comparison of molten salt heat recovery options in the Cu□Cl cycle of hydrogen production. *International Journal of Hydrogen Energy*, **2011**, 36, 11328-11337	6.7	31
334	A novel phase change based cooling system for prismatic lithium ion batteries. *International Journal of Refrigeration*, **2018**, 86, 203-217	3.8	31
333	A Comprehensive Review of Backfill Materials and Their Effects on Ground Heat Exchanger Performance. *Sustainability*, **2018**, 10, 4486	3.6	31
332	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	10.6	30
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330	Performance Assessment of a Novel Solar and Ocean Thermal Energy Conversion Based Multigeneration System for Coastal Areas. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2015**, 137,	2.3	30
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328	Production of hydrogen-rich syngas from novel processes for gasification of petroleum cokes and coals. *International Journal of Hydrogen Energy*, **2020**, 45, 11577-11592	6.7	30
327	Techno-economic assessment of a solar-geothermal multigeneration system for buildings. *International Journal of Hydrogen Energy*, **2017**, 42, 21454-21462	6.7	28
326	Multi-objective optimization of an ocean thermal energy conversion system for hydrogen production. *International Journal of Hydrogen Energy*, **2015**, 40, 7601-7608	6.7	28
325	Advanced exergy and advanced exergoeconomic analyses of biomass and natural gas fired combined cycles with hydrogen production. *Applied Thermal Engineering*, **2018**, 134, 1-11	5.8	28
324	Efficiency analysis of a hybrid copper□chlorine (Cu□Cl) cycle for nuclear-based hydrogen production. *Chemical Engineering Journal*, **2009**, 155, 132-137	14.7	28
323	Feasibility of an energy conversion system in Canada involving large-scale integrated hydrogen production using solid fuels. *International Journal of Hydrogen Energy*, **2010**, 35, 4788-4807	6.7	28
322	A thermal performance management system for lithium-ion battery packs. *Applied Thermal Engineering*, **2020**, 165, 114378	5.8	28
321	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	10.3	28

320	Performance analysis of a supercritical water-cooled nuclear reactor integrated with a combined cycle, a Cu-Cl thermochemical cycle and a hydrogen compression system. *Applied Energy*, **2017**, 195, 646-658	10.7	27
319	Thermodynamic analysis of a novel multigeneration energy system based on heat recovery from a biomass CHP cycle. *Applied Thermal Engineering*, **2015**, 89, 90-100	5.8	27
318	Comparative assessment of CANDU 6 and Sodium-cooled Fast Reactors for nuclear desalination. *Desalination*, **2016**, 379, 182-192	10.3	27
317	Development of new heat exchanger network designs for a four-step CuCl cycle for hydrogen production. *Energy*, **2014**, 77, 338-351	7.9	27
316	Application of sliding window technique for prediction of wind velocity time series. *International Journal of Energy and Environmental Engineering*, **2014**, 5, 1	4	27
315	Analytical approximation for solidification processes in PCM storage with internal fins: imposed heat flux. *Heat and Mass Transfer*, **2011**, 47, 369-376	2.2	27
314	Performance analysis of gas liquefaction cycles. *International Journal of Energy Research*, **2008**, 32, 35-43	4.5	27
313	Clarifying thermodynamic efficiencies and losses via exergy. *Exergy an International Journal*, **2002**, 2, 3-5		27
312	A New Regulation for Supporting a Circular Economy in the Plastic Industry: The Case of Peru (Short Communication). *Journal of Landscape Ecology(Czech Republic)*, **2020**, 13, 1-3	1.2	27
311	Integrated approach for sustainable development of energy, water and environment systems. *Energy Conversion and Management*, **2018**, 159, 398-412	10.6	26
310	Energy, exergy, economic, exergoeconomic, and exergoenvironmental (5E) analyses of a triple cycle with carbon capture. *Journal of CO2 Utilization*, **2020**, 41, 101258	7.6	26
309	Biomass Briquettes as an Alternative Fuel: A Comprehensive Review. *Energy Technology*, **2019**, 7, 1801011	3.5	26
308	Performance assessment of a new hydrogen cooled prismatic battery pack arrangement for hydrogen hybrid electric vehicles. *Energy Conversion and Management*, **2018**, 173, 303-319	10.6	25
307	Integration of Wind Energy, Hydrogen and Natural Gas Pipeline Systems to Meet Community and Transportation Energy Needs: A Parametric Study. *Sustainability*, **2014**, 6, 2506-2526	3.6	25
306	Exergetic life cycle assessment of a hydrogen production process. *International Journal of Hydrogen Energy*, **2012**, 37, 5665-5675	6.7	25
305	Development of a four-step CuCl cycle for hydrogen production Part II: Multi-objective optimization. *International Journal of Hydrogen Energy*, **2016**, 41, 7826-7834	6.7	25
304	Modified exergy and modified exergoeconomic analyses of a solar based biomass co-fired cycle with hydrogen production. *Energy*, **2019**, 167, 715-729	7.9	25
303	Exergoeconomic analysis of natural gas fired and biomass post-fired combined cycle with hydrogen injection into the combustion chamber. *Journal of Cleaner Production*, **2018**, 180, 450-465	10.3	24

302	Noise Pollution Prevention in Wind Turbines: Status and Recent Advances. *Sustainability*, **2012**, 4, 1104-1167	3.67	24
301	Design of systems for hydrogen production based on the Cu-Cl thermochemical water decomposition cycle: Configurations and performance. *International Journal of Hydrogen Energy*, **2011**, 36, 11309-11320	6.7	24
300	Energy, environmental, health and cost benefits of cogeneration from fossil fuels and nuclear energy using the electrical utility facilities of a province. *Energy for Sustainable Development*, **2009**, 13, 43-51	5.4	24
299	Combating global warming via non-fossil fuel energy options. *International Journal of Global Warming*, **2009**, 1, 2	0.6	24
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