Marc A Rosen

List of Publications by Year in Descending Order

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	Multi-Objective Optimization of a Geothermal Steam Turbine Combined With Reverse Osmosis and Multi-Effect Desalination for Sustainable Freshwater Production. *Journal of Energy Resources Technology, Transactions of the ASME*, **2022**, 144,	2.6	1
480	Effective Thermal Conductivity and Borehole Thermal Resistance in Selected Borehole Heat Exchangers for the Same Geology. *Energies*, **2022**, 15, 1152	3.1	1
479	A conceptual review of sustainable electrical power generation from biogas. *Energy Science and Engineering*, **2022**, 10, 630-655	3.4	1
478	Analysis of variance and multi-objective optimization of efficiencies and emission in air/steam rigid and flexible polyurethane foam wastes gasification. *Chemical Engineering and Processing: Process Intensification*, **2022**, 176, 108961	3.7	0
477	Thermal Investigation of a Turbocharger Using IR Thermography. *Clean Technologies*, **2022**, 4, 329-344	3.4	
476	Waste Management and the Circular Economy. *CSR, Sustainability, Ethics & Governance*, **2022**, 119-131	0.2	
475	The Circular Economy and Energy. *CSR, Sustainability, Ethics & Governance*, **2022**, 133-149	0.2	
474	Energy, Exergy, Exergoeconomic and Exergoenvironmental Impact Analyses and Optimization of Various Geothermal Power Cycle Configurations. *Entropy*, **2021**, 23,	2.8	2
473	Syngas-fed membrane-based and steam and water-fed electrolysis-based hydrogen production systems: Renewability, sustainability, environmental and economic analyses and optimization. *Journal of Cleaner Production*, **2021**, 326, 129424	10.3	5
472	Coastal Cities Seen from Loyalty and Their Tourist Motivations: A Study in Lima, Peru. *Sustainability*, **2021**, 13, 11575	3.6	22
471	A comprehensive comparative investigation on solar heating and cooling technologies from a thermo-economic viewpoint: A dynamic simulation. *Energy Science and Engineering*, **2021**, 9, 724-742	3.4	1
470	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
469	Modeling of vertical ground heat exchangers. *International Journal of Green Energy*, **2021**, 18, 755-774	3	2
468	Assessment of a novel phase change material-based thermal caisson for geothermal heating and cooling. *Energy Conversion and Management*, **2021**, 234, 113928	10.6	10
467	Energy Sustainability with a Focus on Environmental Perspectives. *Earth Systems and Environment*, **2021**, 5, 1-14	7.5	12
466	Energy and exergy assessment with updated Reistad estimates: A case study in the transportation sector of Bangladesh. *Energy Science and Engineering*, **2021**, 9, 1349-1358	3.4	1
465	A Novel Electricity and Freshwater Production System: Performance Analysis from Reliability and Exergoeconomic Viewpoints with Multi-Objective Optimization. *Sustainability*, **2021**, 13, 6448	3.6	6

464	On the use of dynamic programming for optimal energy management of grid-connected reversible solid oxide cell-based renewable microgrids. *Energy*, **2021**, 225, 120304	7.9	12
463	Factors Affecting Green Entrepreneurship Intentions in Business University Students in COVID-19 Pandemic Times: Case of Ecuador. *Sustainability*, **2021**, 13, 6447	3.6	43
462	Energy modelling and analysis of a multi-generation renewable energy system for dairy farm applications. *Biofuels*, **2021**, 12, 273-283	2	3
461	An innovative approach to enhance sustainability of a district cooling system by adjusting cold thermal storage and chiller operation. *Energy*, **2021**, 214, 118949	7.9	8
460	Performance improvement study of an integrated photovoltaic system for offshore power production. *International Journal of Energy Research*, **2021**, 45, 772-785	4.5	2
459	Economic and environmental assessment using emergy of a geothermal power plant. *Energy Conversion and Management*, **2021**, 228, 113666	10.6	19
458	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
457	Exergy and energy analyses **2021**, 23-35		3
456	Chemical exergy **2021**, 37-60		1
455	Exergy analyses of refrigeration and heat pump systems **2021**, 125-141		2
454	Exergy analyses of thermal energy storage systems **2021**, 167-210		0
453	Exergy analyses of renewable energy systems **2021**, 241-324		0
452	Exergy analyses of steam power plants **2021**, 325-354		
451	Exergy analyses of fuel cell systems **2021**, 479-514		0
450	Exergoeconomic analyses of thermal systems **2021**, 527-563		1
449	Sectoral exergy analysis **2021**, 565-599		
448	Exergetic life cycle assessment **2021**, 601-629		
447	Exergy and industrial ecology **2021**, 631-639		

446	Exergy and multiobjective optimization **2021**, 641-665		0
445	Renewable energy and energy sustainability **2021**, 17-31		1
444	Exergy analysis **2021**, 43-60		1
443	Heat pumps and absorption chillers **2021**, 163-180		1
442	Exergy analyses of cogeneration and district energy systems **2021**, 355-381		1
441	Dynamic Advanced Exergetic, Exergoeconomic, and Environmental Analyses of a Hybrid Solar City Gate Station. *Journal of Energy Resources Technology, Transactions of the ASME*, **2021**, 143,	2.6	4
440	Exergy Analysis as a Tool for Addressing Climate Change. *European Journal of Sustainable Development Research*, **2021**, 5, em0148	1.6	7
439	Thermoeconomic analysis and multi-objective optimization of a solid-oxide fuel cell plant coupled with methane tri-reforming: Effects of thermochemical recuperation. *International Journal of Energy Research*, **2021**, 45, 10332-10354	4.5	1
438	Advanced Evaluation of a Biomass Externally Fired Hydrogen Production Combined Cycle. *Chemical Engineering and Technology*, **2021**, 44, 1585-1595	2	
437	Influence of Technostress on Academic Performance of University Medicine Students in Peru during the COVID-19 Pandemic. *Sustainability*, **2021**, 13, 8949	3.6	34
436	Polygeneration systems based on high temperature fuel cell (MCFC and SOFC) technology: System design, fuel types, modeling and analysis approaches. *Energy*, **2021**, 228, 120613	7.9	12
435	Factors for Implementation of Circular Economy in Firms in COVID-19 Pandemic Times: The Case of Peru. *Environments - MDPI*, **2021**, 8, 95	3.2	8
434	Energy, exergy, exergoenvironmental, and exergoeconomic (4E) analyses of a gas boosting station. *Energy Science and Engineering*, **2021**, 9, 2044	3.4	2
433	Energy Storage Systems **2021**, 59-123		
432	Energy and Exergy Analyses **2021**, 261-382		
431	Optimal equipment arrangement of a total site for cogeneration of thermal and electrical energy by using exergoeconomic approach. *Energy Reports*, **2021**, 7, 5330-5343	4.6	2
430	Assessment of a biomass-based polygeneration plant for combined power, heat, bioethanol and biogas. *Applied Thermal Engineering*, **2021**, 198, 117425	5.8	7
429	Integrated solar thermal systems in smart optimized zero energy buildings: Energy, environment and economic assessments. *Sustainable Energy Technologies and Assessments*, **2021**, 48, 101580	4.7	5

428	Experimental and numerical investigation on the heat transfer of an automotive engine turbocharger. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2021**, 235, 2124-2135	1.4	3
427	Geothermal power plants **2021**, 147-162		1
426	Economic and Environmental Analyses of Multi-Generation Renewable Energy System for Dairy Farms. *European Journal of Sustainable Development Research*, **2021**, 6, em0174	1.6	0
425	An outlook on endangering grid security in India due to implementation challenges of low voltage ride through protection in wind turbines. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12672	2.2	0
424	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	10.6	21
423	Influence of Rotation Speed and Air Pressure on the Down the Hole Drilling Velocity for Borehole Heat Exchanger Installation. *Energies*, **2020**, 13, 2716	3.1	4
422	Analysis and assessment of the integrated generation IV gas-cooled fast nuclear reactor and copper-chlorine cycle for hydrogen and electricity production. *Energy Conversion and Management*, **2020**, 205, 112387	10.6	15
421	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
420	Energy and Cost Analysis and Optimization of a Geothermal-Based Cogeneration Cycle Using an Ammonia-Water Solution: Thermodynamic and Thermoeconomic Viewpoints. *Sustainability*, **2020**, 12, 484	3.6	12
419	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
418	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
417	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. *European Journal of Sustainable Development Research*, **2020**, 4, em0138	1.6	6
416	Sustainability: Concepts, Definitions, and Applications **2020**, 15-26		
415	Technoeconomic and environmental optimization of a solar tower integrated energy system for freshwater production. *Journal of Cleaner Production*, **2020**, 270, 121760	10.3	24
414	A review of energy storage types, applications and recent developments. *Journal of Energy Storage*, **2020**, 27, 101047	7.8	361
413	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
412	An Exploratory Study of a New Psychological Instrument for Evaluating Sustainability: The Sustainable Development Goals Psychological Inventory. *Sustainability*, **2020**, 12, 7617	3.6	7
411	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

410	Thermodynamic Optimization of a Geothermal Power Plant with a Genetic Algorithm in Two Stages. *Processes*, **2020**, 8, 1277	2.9	37
409	Investigating azeotropic separation of hydrochloric acid for optimizing the copper-chlorine thermochemical cycle. *International Journal of Hydrogen Energy*, **2020**, 45, 26080-26089	6.7	3
408	Comparative economic and life cycle assessment of solar-based hydrogen production for oil and gas industries. *Energy*, **2020**, 208, 118347	7.9	38
407	Investigation of elastocaloric cooling option in a solar energy-driven system. *International Journal of Refrigeration*, **2020**, 120, 340-356	3.8	3
406	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
405	Advances in integration of energy, water and environment systems towards climate neutrality for sustainable development. *Energy Conversion and Management*, **2020**, 225, 113410	10.6	20
404	A thermal performance management system for lithium-ion battery packs. *Applied Thermal Engineering*, **2020**, 165, 114378	5.8	28
403	Exergy analysis of a pistachio roasting system. *Drying Technology*, **2020**, 38, 1565-1583	2.6	9
402	Energy, exergy and sustainability analyses of Bangladesh power generation sector. *Energy Reports* , **2020**, 6, 868-878	4.6	19
401	Comparative assessment of new liquid-to-vapor type battery cooling systems. *Energy*, **2019**, 188, 116010	7.9	22
400	Development and analysis of a new tube based cylindrical battery cooling system with liquid to vapor phase change. *International Journal of Refrigeration*, **2019**, 108, 163-173	3.8	5
399	Energy, exergy, economic and advanced and extended exergy analyses of a wind turbine. *Energy Conversion and Management*, **2019**, 183, 369-381	10.6	56
398	Evaluation of temperature profiling quality in determining energy efficiencies of borehole heat exchangers. *Geothermics*, **2019**, 78, 129-137	4.3	15
397	Combustion, performance, and emissions of a compression ignition engine using Pongamia biodiesel and bioethanol. *Environmental Science and Pollution Research*, **2019**, 26, 8069-8079	5.1	7
396	Thermodynamic and Exergoeconomic Analyses of a Novel Combined Cycle Comprised of Vapor-Compression Refrigeration and Organic Rankine Cycles. *Sustainability*, **2019**, 11, 3374	3.6	17
395	Conventional and enhanced thermodynamic and exergoeconomic analyses of a photovoltaic combined cycle with biomass post firing and hydrogen production. *Applied Thermal Engineering*, **2019**, 160, 113996	5.8	11
394	Transient thermodynamic analysis of a novel integrated ammonia production, storage and hydrogen production system. *International Journal of Hydrogen Energy*, **2019**, 44, 18214-18224	6.7	13
393	Improved application of a solar chimney concept in a two-story building: An enhanced geometry through a numerical approach. *Renewable Energy*, **2019**, 143, 569-585	8.1	19

392	Electric Vehicle Battery Lifetime Extension through an Intelligent Double-Layer Control Scheme. *Energies*, **2019**, 12, 1525	3.1	3
391	Towards a better understanding of energy systems using emergy-based exergoeconoenvironmental analysis. *International Journal of Exergy*, **2019**, 28, 209	1.2	4
390	A New Method Based on Thermal Response Tests for Determining Effective Thermal Conductivity and Borehole Resistivity for Borehole Heat Exchangers. *Energies*, **2019**, 12, 1072	3.1	8
389	Techno-economic assessment of hybrid renewable resources for a residential building in tehran. *Environmental Progress and Sustainable Energy*, **2019**, 38, 13209	2.5	19
388	Techno-economic feasibility of building attached photovoltaic systems for the various climatic conditions of Iran. *Environmental Progress and Sustainable Energy*, **2019**, 38, e13239	2.5	8
387	Performance of ground heat exchangers: A comprehensive review of recent advances. *Energy*, **2019**, 178, 207-233	7.9	69
386	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
385	Techno-economic feasibility analysis of stand-alone hybrid wind/photovoltaic/diesel/battery system for the electrification of remote rural areas: Case study Persian Gulf Coast-Iran. *Environmental Progress and Sustainable Energy*, **2019**, 38, 13172	2.5	16
384	Accounting for Individual Differences in Connectedness to Nature: Personality and Gender Differences. *Sustainability*, **2019**, 11, 1693	3.6	19
383	Comparative study of solar-powered underfloor heating system performance in distinctive climates. *Renewable Energy*, **2019**, 130, 524-535	8.1	17
382	Exergy and Exergoeconomic Analyses of a Combined Power Producing System including a Proton Exchange Membrane Fuel Cell and an Organic Rankine Cycle. *Sustainability*, **2019**, 11, 3264	3.6	15
381	Kinetic and electrochemical analyses of a CuCl/HCl electrolyzer. *International Journal of Energy Research*, **2019**, 43, 6890	4.5	8
380	Carbon dioxide emissions prediction of five Middle Eastern countries using artificial neural networks. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 1-13	1.6	16
379	Do Universities Contribute to Sustainable Development?. *European Journal of Sustainable Development Research*, **2019**, 4,	1.6	3
378	Exergy-Based Sustainability Analysis of Biodiesel Production and Combustion Processes. *Biofuel and Biorefinery Technologies*, **2019**, 193-217	1	4
377	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
376	Biomass Briquettes as an Alternative Fuel: A Comprehensive Review. *Energy Technology*, **2019**, 7, 1801011	3.5	26
375	Performance analysis of a photovoltaic/wind/diesel hybrid power generation system for domestic utilization in winnipeg, manitoba, canada. *Environmental Progress and Sustainable Energy*, **2019**, 38, 548-562	2.5	18

374	Experimental study of effect of anolyte concentration and electrical potential on electrolyzer performance in thermochemical hydrogen production using the Cu-Cl cycle. *International Journal of Hydrogen Energy*, **2018**, 43, 4160-4166	6.7	2
373	Investigation of new mechanical heat pump systems for heat upgrading applications. *International Journal of Energy Research*, **2018**, 42, 3078-3090	4.5	9
372	Heat transfer modeling of a novel battery thermal management system. *Numerical Heat Transfer; Part A: Applications*, **2018**, 73, 277-290	2.3	13
371	Performance and emission characteristics of a bio-lubricated two-stroke gasoline engine. *Environmental Science and Pollution Research*, **2018**, 25, 17789-17796	5.1	3
370	Constituent solubility and dissolution in a CuCl-HCl-H2O ternary system. *Chemical Engineering Science*, **2018**, 184, 209-215	4.4	1
369	Model development and analysis of a novel high-temperature electrolyser for gas phase electrolysis of hydrogen chloride for hydrogen production. *International Journal of Hydrogen Energy* , **2018**, 43, 9112-9118	6.7	8
368	Empirical analysis of the effect of descent flight path angle on primary gaseous emissions of commercial aircraft. *Environmental Pollution*, **2018**, 236, 226-235	9.3	2
367	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
366	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
365	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
364	Integrated approach for sustainable development of energy, water and environment systems. *Energy Conversion and Management*, **2018**, 159, 398-412	10.6	26
363	Co-production of Hydrogen and Copper from Copper Waste Using a Thermochemical CuCl Cycle. *Energy & Fuels*, **2018**, 32, 2137-2144	4.1	9
362	Long-term study of vertical ground heat exchangers with varying seasonal heat fluxes. *Geothermics*, **2018**, 75, 15-25	4.3	9
361	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
360	Electricity price forecasting using neural networks with an improved iterative training algorithm. *International Journal of Ambient Energy*, **2018**, 39, 147-158	2	18
359	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
358	3.8 Ocean (Marine) Energy Production **2018**, 335-379		2
357	Ten Years of Sustainability (2009 to 2018): A Bibliometric Overview. *Sustainability*, **2018**, 10, 1655	3.6	63

356	A novel state of charge and capacity estimation technique for electric vehicles connected to a smart grid based on inverse theory and a metaheuristic algorithm. *Energy*, **2018**, 155, 1047-1058	7.9	19
355	Influence of Selected Gasification Parameters on Syngas Composition From Biomass Gasification. *Journal of Energy Resources Technology, Transactions of the ASME*, **2018**, 140,	2.6	23
354	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
353	First and Second Law Analyses of Trans-critical N2O Refrigeration Cycle Using an Ejector. *Sustainability*, **2018**, 10, 1177	3.6	6
352	Multi-objective optimization of an integrated gasification combined cycle for hydrogen and electricity production. *Computers and Chemical Engineering*, **2018**, 117, 256-267	4	9
351	5.5 Exergy Management **2018**, 166-201		4
350	3.10 Electrochemical Energy Production **2018**, 416-469		1
349	3.11 Chemical Energy Production **2018**, 470-520		1
348	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
347	Exergy Assessment of a Solar-Assisted District Energy System. *Open Fuels and Energy Science Journal*, **2018**, 11, 30-43		3
346	A novel phase change based cooling system for prismatic lithium ion batteries. *International Journal of Refrigeration*, **2018**, 86, 203-217	3.8	31
345	Exergoeconomic and thermodynamic analyses of an externally fired combined cycle with hydrogen production and injection to the combustion chamber. *International Journal of Hydrogen Energy*, **2018**, 43, 781-792	6.7	13
344	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
343	Assessment and analysis of hydrogen and electricity production from a Generation IV lead-cooled nuclear reactor integrated with a copper-chlorine thermochemical cycle. *International Journal of Energy Research*, **2018**, 42, 91-103	4.5	16
342	Heat Transfer and Thermodynamic Analyses of a Novel Solid□Gas Thermochemical Strontium Chloride□Ammonia Thermal Energy Storage System. *Journal of Heat Transfer*, **2018**, 140,	1.8	10
341	Exergy approach for advancing sustainability of a biomass boiler. *International Journal of Exergy*, **2018**, 27, 62	1.2	4
340	A Comprehensive Review of Backfill Materials and Their Effects on Ground Heat Exchanger Performance. *Sustainability*, **2018**, 10, 4486	3.6	31
339	Thermodynamic viability of a new three step high temperature Cu-Cl cycle for hydrogen production. *International Journal of Hydrogen Energy*, **2018**, 43, 18783-18789	6.7	23

338	A review of novel thermal management systems for batteries. *International Journal of Energy Research*, **2018**, 42, 3182-3205	4.5	81
337	Transient Energy and Exergy Analyses of a Multistage Hydrogen Compression and Storage System. *Chemical Engineering and Technology*, **2018**, 41, 1594-n/1603	2	5
336	Cashew Nut Shell Liquid as a Fuel for Compression Ignition Engines: A Comprehensive Review. *Energy & Fuels*, **2018**, 32, 7237-7244	4.1	9
335	3.16 Thermal Energy Production **2018**, 673-706		1
334	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
333	Development and evaluation of a new ammonia boiling based battery thermal management system. *Electrochimica Acta*, **2018**, 280, 340-352	6.7	18
332	A comparative exergoeconomic evaluation of biomass post-firing and co-firing combined power plants. *Biofuels*, **2017**, 8, 1-15	2	12
331	A holistic approach to sustainable development of energy, water and environment systems. *Journal of Cleaner Production*, **2017**, 155, 1-11	10.3	47
330	Thermoeconomic analysis of a solar-biomass integrated multigeneration system for a community. *Applied Thermal Engineering*, **2017**, 120, 645-653	5.8	98
329	Modeling and Optimization of Cogeneration and Trigeneration Systems **2017**, 317-397		
328	Modeling and Optimization of Multigeneration Energy Systems **2017**, 398-446		3
327	Modeling and Optimization **2017**, 33-64		2
326	Modeling and Optimization of Thermal Components **2017**, 65-91		
325	Modeling and Optimization of Renewable Energy Based Systems **2017**, 221-274		
324	Modeling and Optimization of Power Plants **2017**, 275-316		2
323	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
322	Efficiency analysis of borehole heat exchangers as grout varies via thermal response test simulations. *Geothermics*, **2017**, 69, 132-138	4.3	23
321	Techno-economic assessment of a solar-geothermal multigeneration system for buildings. *International Journal of Hydrogen Energy*, **2017**, 42, 21454-21462	6.7	28

320	Development and assessment of a new solar heliostat field based system using a thermochemical water decomposition cycle integrated with hydrogen compression. *Solar Energy*, **2017**, 151, 186-201	6.8	22
319	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
318	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
317	A review of hydrogen production using coal, biomass and other solid fuels. *Biofuels*, **2017**, 8, 725-745	2	23
316	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
315	Analysis and assessment of novel liquid air energy storage system with district heating and cooling capabilities. *Energy*, **2017**, 141, 792-802	7.9	37
314	Multi-objective optimization of a residential building envelope in the Bahamas **2017**,		1
313	Optimal Operation of a Grid-Connected Hybrid Renewable Energy System for Residential Applications. *Sustainability*, **2017**, 9, 1314	3.6	55
312	Development of an integrated system for electricity and hydrogen production from coal and water utilizing a novel chemical hydrogen storage technology. *Fuel Processing Technology*, **2017**, 167, 608-621	7.2	12
311	Assessment of the Thermal Energy Storage in Friedrichshafen District Energy Systems. *Energy Procedia*, **2017**, 116, 91-105	2.3	8
310	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
309	Thermodynamic analysis of a wall mounted gas boiler with an organic Rankine cycle and hydrogen production unit. *Energy and Environment*, **2017**, 28, 725-743	2.4	2
308	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
307	Optimization of seasonal storage for community-level energy systems: status and needs. *Energy, Ecology and Environment*, **2017**, 2, 169-181	3.5	10
306	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
305	Hydrogen production from biomass via an iron oxide thermochemical cycle. *Biofuels*, **2017**, 8, 709-716	2	1
304	Thermodynamic analysis and the design of sensible thermal energy storages. *International Journal of Energy Research*, **2017**, 41, 39-48	4.5	9
303	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

302	Modeling and performance assessment of a new integrated gasification combined cycle with a water gas shift membrane reactor for hydrogen production. *Computers and Chemical Engineering*, **2017**, 103, 275-292	4	19
301	Industrial ecology and its role in enhancing the design for energy selection and efficiency **2017**,		1
300	**2017**,		67
299	Importance of Physical and Physiological Parameters in Simulated Particle Transport in the Alveolar Zone of the Human Lung. *Applied Sciences (Switzerland)*, **2017**, 7, 113	2.6	4
298	Exergoeconomic Performance Comparison and Optimization of Single-Stage Absorption Heat Transformers. *Energies*, **2017**, 10, 532	3.1	15
297	Sustainable Development: A Vital Quest. *European Journal of Sustainable Development Research*, **2017**, 1,	1.6	11
296	How Can We Achieve the UN Sustainable Development Goals?. *European Journal of Sustainable Development Research*, **2017**, 1,	1.6	13
295	Enhancing renewable energy prospects via hydrogen energy systems. *Journal of Fundamentals of Renewable Energy and Applications*, **2017**, 07,		4
294	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
293	Effects of various gasification parameters and operating conditions on syngas and hydrogen production. *Chemical Engineering Research and Design*, **2016**, 115, 1-18	5.5	23
292	Thermal Storage **2016**, 350-367		
291	Exergy Analysis: Theory and Applications **2016**, 628-650		
290	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
289	Analysis and Assessment of a Gas Turbine-Modular Helium Reactor for Nuclear Desalination. *Journal of Nuclear Engineering and Radiation Science*, **2016**, 2,	1.1	14
288	Direct contact heat transfer from molten salt droplets in a thermochemical water splitting process of hydrogen production. *International Journal of Heat and Mass Transfer*, **2016**, 96, 125-131	4.9	15
287	Economic analysis of standalone hybrid energy systems for application in Tehran, Iran. *International Journal of Hydrogen Energy*, **2016**, 41, 7732-7743	6.7	90
286	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
285	Deriving an exergetic economic production quantity model for better sustainability. *Applied Mathematical Modelling*, **2016**, 40, 6026-6039	4.5	20

284	Development of a four-step Cu□l cycle for hydrogen production □Part I: Exergoeconomic and exergoenvironmental analyses. *International Journal of Hydrogen Energy*, **2016**, 41, 7814-7825	6.7	37
283	Experimental investigation of particle dissolution rates in aqueous solutions for hydrogen production. *Heat and Mass Transfer*, **2016**, 52, 2067-2073	2.2	1
282	Comparative assessment of CANDU 6 and Sodium-cooled Fast Reactors for nuclear desalination. *Desalination*, **2016**, 379, 182-192	10.3	27
281	Evaluation of wind energy potential in province of Bushehr, Iran. *Renewable and Sustainable Energy Reviews*, **2016**, 55, 455-466	16.2	80
280	Thermoeconomic Analysis and Optimization of a New Combined Supercritical Carbon Dioxide Recompression Brayton/Kalina Cycle. *Sustainability*, **2016**, 8, 1079	3.6	22
279	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. *Energies*, **2016**, 9, 316	3.1	52
278	Analysis of an Internal Combustion Engine Using Porous Foams for Thermal Energy Recovery. *Sustainability*, **2016**, 8, 267	3.6	5
277	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
276	Underground Thermal Energy Storage **2016**, 39-75		
275	Ground Heat Exchanger Modeling Examples **2016**, 143-183		
274	Thermodynamic Analysis **2016**, 184-205		
273	Development of a four-step Cu□l cycle for hydrogen production □Part II: Multi-objective optimization. *International Journal of Hydrogen Energy*, **2016**, 41, 7826-7834	6.7	25
272	Integration of transportation energy processes with a net zero energy community using captured waste hydrogen from electrochemical plants. *International Journal of Hydrogen Energy*, **2016**, 41, 8337-8346	6.7	16
271	Techno-economic assessment of a renewable energy based integrated multigeneration system for green buildings. *Applied Thermal Engineering*, **2016**, 99, 1286-1294	5.8	53
270	Analysis and assessment of an integrated hydrogen energy system. *International Journal of Hydrogen Energy*, **2016**, 41, 7960-7967	6.7	58
269	From rice husk to high performance shape stabilized phase change materials for thermal energy storage. *RSC Advances*, **2016**, 6, 45595-45604	3.7	23
268	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
267	Development and analysis of an integrated system with direct splitting of hydrogen sulfide for hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 20036-20062	6.7	14

266	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
265	Thermodynamic analysis and performance assessment of an integrated heat pump system for district heating applications. *Applied Thermal Engineering*, **2015**, 89, 833-842	5.8	21
264	Two-phase bubble flow and convective mass transfer in water splitting processes. *International Journal of Hydrogen Energy*, **2015**, 40, 4047-4055	6.7	10
263	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
262	Exergy Analysis of a Biomass Co-Firing Based Pulverized Coal Power Generation System. *International Journal of Green Energy*, **2015**, 12, 461-478	3	6
261	Feasibility of satisfying electrical energy needs with hybrid stand alone systems for application in Tehran, Iran **2015**,		4
260	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
259	Transient thermal performance assessment of a hybrid solar-fuel cell system in Toronto, Canada. *International Journal of Hydrogen Energy*, **2015**, 40, 7846-7854	6.7	22
258	Development and analysis of a new renewable energy-based multi-generation system. *Energy*, **2015** , 79, 90-99	7.9	52
257	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
256	Comparative performance evaluation of cascaded air-source hydronic heat pumps. *Energy Conversion and Management*, **2015**, 89, 577-587	10.6	20
255	A new model to assess the environmental impact and sustainability of energy systems. *Journal of Cleaner Production*, **2015**, 103, 211-218	10.3	32
254	Exergy analysis of thermal energy storage in a district energy application. *Renewable Energy*, **2015**, 74, 848-854	8.1	49
253	Wind resource assessment and wind power potential for the city of Ardabil, Iran. *International Journal of Energy and Environmental Engineering*, **2015**, 6, 431-438	4	18
252	Industrial Heating and Cooling Systems **2015**, 99-129		2
251	Exergy-Related Methods **2015**, 309-366		
250	Limits to Efficiency for Energy Utilization **2015**, 1-13		
249	Renewable Energy-Based Building HVAC Systems **2015**, 279-308		

248	Heat Pump Systems **2015**, 131-168		4
247	Optimization of a Finned Shell and Tube Heat Exchanger Using a Multi-Objective Optimization Genetic Algorithm. *Sustainability*, **2015**, 7, 11679-11695	3.6	16
246	Exergy, Economic and Environmental Analysis for Simple and Combined Heat and Power IC Engines. *Sustainability*, **2015**, 7, 4411-4424	3.6	22
245	Thermodynamic Analyses of Biomass Gasification Integrated Externally Fired, Post-Firing and Dual-Fuel Combined Cycles. *Sustainability*, **2015**, 7, 1248-1262	3.6	12
244	Thermodynamic Analysis of a Power Plant Integrated with Fogging Inlet Cooling and a Biomass Gasification. *Sustainability*, **2015**, 7, 1292-1307	3.6	4
243	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. *Sustainability*, **2015**, 7, 2243-2255	3.6	64
242	Addressing the Impact of Environmental Xenobiotics in Coal-Fired Flue Gas. *Sustainability*, **2015**, 7, 2678-2694	3.6	3
241	Sustainability Aspects of Energy Conversion in Modern High-Speed Trains with Traction Induction Motors. *Sustainability*, **2015**, 7, 3441-3459	3.6	3
240	Evaluating the Thermal Pollution Caused by Wastewaters Discharged from a Chain of Coal-Fired Power Plants along a River. *Sustainability*, **2015**, 7, 5920-5943	3.6	5
239	Comparative Exergoeconomic Analyses of Gas Turbine Steam Injection Cycles with and without Fogging Inlet Cooling. *Sustainability*, **2015**, 7, 12236-12257	3.6	12
238	Natural and Artificial Methods for Regeneration of Heat Resources for Borehole Heat Exchangers to Enhance the Sustainability of Underground Thermal Storages: A Review. *Sustainability*, **2015**, 7, 13104-13125	3.6	20
237	Exergy, Economic and Environmental Analyses of Gas Turbine Inlet Air Cooling with a Heat Pump Using a Novel System Configuration. *Sustainability*, **2015**, 7, 14259-14286	3.6	19
236	Selection of Optimum Working Fluid for Organic Rankine Cycles by Exergy and Exergy-Economic Analyses. *Sustainability*, **2015**, 7, 15362-15383	3.6	56
235	Three-Dimensional Analysis of the Thermal Interaction of Multiple Vertical Ground Heat Exchangers. *International Journal of Green Energy*, **2015**, 12, 1144-1150	3	9
234	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
233	Energy and exergy analyses of a solar-biomass integrated cycle for multigeneration. *Solar Energy*, **2015**, 112, 290-299	6.8	117
232	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
231	Net-Zero Energy Buildings and Communities: Potential and the Role of Energy Storage. *Journal of Power and Energy Engineering*, **2015**, 03, 470-474	0.7	13

230	Exergy and its Ties to the Environment, Economics, and Sustainability **2015**, 1-42		4
229	Storing Exergy in the Ground: An Effective Use of the Environment. *Research Journal of Environmental Sciences*, **2015**, 9, 66-73	0	1
228	Thermoeconomic multi-objective optimization of a novel biomass-based integrated energy system. *Energy*, **2014**, 68, 958-970	7.9	115
227	First and second law analysis of ammonia/salt absorption refrigeration systems. *International Journal of Refrigeration*, **2014**, 40, 111-121	3.8	57
226	Integration of a Gas Fired Steam Power Plant with a Total Site Utility Using a New Cogeneration Targeting Procedure. *Chinese Journal of Chemical Engineering*, **2014**, 22, 455-468	3.2	4
225	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
224	Energy analysis of thermal energy storages with grid configurations. *Applied Energy*, **2014**, 117, 54-61	10.7	17
223	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
222	Thermodynamic analysis and comparison of combined ejector absorption and single effect absorption refrigeration systems. *Applied Energy*, **2014**, 133, 335-346	10.7	44
221	Development of new heat exchanger network designs for a four-step CuCl cycle for hydrogen production. *Energy*, **2014**, 77, 338-351	7.9	27
220	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
219	Exergoeconomic analysis of a biomass post-firing combined-cycle power plant. *Energy*, **2014**, 77, 553-561	7.9	20
218	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
217	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
216	Sustainable development of energy systems. *Energy Conversion and Management*, **2014**, 87, 1057-1062	10.6	30
215	Application of sliding window technique for prediction of wind velocity time series. *International Journal of Energy and Environmental Engineering*, **2014**, 5, 1	4	27
214	Indirect contact heat recovery with solidification in thermochemical hydrogen production. *Energy Conversion and Management*, **2014**, 82, 212-218	10.6	8
213	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

212	Thermodynamic analysis of an integrated gasification combined cycle power plant: effect of nitrogen supply on system performance. *International Journal of Exergy*, **2014**, 14, 505	1.2	2
211	A Dual Function Energy Store. *Sustainability*, **2014**, 6, 8297-8309	3.6	2
210	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
209	Mixing Performance of a Suspended Stirrer for Homogenizing Biodegradable Food Waste from Eatery Centers. *Sustainability*, **2014**, 6, 5554-5565	3.6	2
208	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
207	Performance Evaluation of Integrated Energy Systems **2014**, 103-147		
206	Multi-objective optimization of a novel solar-based multigeneration energy system. *Solar Energy*, **2014**, 108, 576-591	6.8	86
205	Process simulation and analysis of a five-step copper□chlorine thermochemical water decomposition cycle for sustainable hydrogen production. *International Journal of Energy Research*, **2014**, 38, 1391-1402	4.5	9
204	CFD Analysis of a Shell and Tube Heat Exchanger Linking a Supercritical Water-Cooled Nuclear Reactor and a Copper-Chlorine Hydrogen Production Cycle **2014**, 55-62		
203	An enviro-economic function for assessing energy resources for district energy systems. *Energy*, **2014**, 70, 159-164	7.9	16
202	Application of multivariate geostatistics in the investigation of heavy metal contamination of roadside dusts from selected highways of the Greater Toronto Area, Canada. *Environmental Earth Sciences*, **2014**, 71, 1409-1419	2.9	21
201	Assessment of the Potential Cumulative Benefits of Applying Utility-based Cogeneration in Ontario. *Energy Studies Review*, **2014**, 6,	0	6
200	Use of Oil Boreholes in the Carpathians in Geoenergetic Systems: Historical and Conceptual Review. *Research Journal of Environmental Sciences*, **2014**, 8, 231-242	0	13
199	Economic Assessment of Three Biomass-Based Hydrogen Production Systems **2014**, 899-912		1
198	Investigation of a Renewable Energy-Based Integrated System for Baseload Power Generation **2014**, 21-46		1
197	Living Standards and Culture: Energy Impact **2014**, 1139-1147		
196	Exergy: Analysis **2014**, 683-691		
195	Exergy: Environmental Impact Assessment Applications **2014**, 692-699		

194	Natural Energy versus Additional Energy **2014**, 1273-1280		
193	Thermodynamic Assessment of Seasonal Stratified Thermal Storage **2014**, 245-261		
192	Analysis of the hazards for the molten cuprous chloride pouring operation in an industrial hydrogen production facility. *International Journal of Energy Research*, **2013**, 37, 358-369	4.5	1
191	Design and simulation of a UOIT copper–chlorine cycle for hydrogen production. *International Journal of Energy Research*, **2013**, 37, 1160-1174	4.5	10
190	Experimental Investigation of Soil Thermal Conductivity Over a Wide Temperature Range. *International Journal of Thermophysics*, **2013**, 34, 1110-1129	2.1	41
189	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
188	Comparative environmental impact and efficiency assessment of selected hydrogen production methods. *Environmental Impact Assessment Review*, **2013**, 42, 1-9	5.3	47
187	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
186	Performance assessment and optimization of a novel integrated multigeneration system for residential buildings. *Energy and Buildings*, **2013**, 67, 568-578	7	88
185	Ground source heat pumps for heating: Parametric energy analysis of a vapor compression cycle utilizing an economizer arrangement. *Applied Thermal Engineering*, **2013**, 52, 245-254	5.8	12
184	Configurations for multiple thermal energy storages in thermal networks **2013**,		1
183	Thermal efficiency improvement of hydrogen production via thermochemical water splitting **2013**,		1
182	Using Exergy to Assess Regional and National Energy Utilization: A Comparative Review. *Arabian Journal for Science and Engineering*, **2013**, 38, 251-261		14
181	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
180	Assessing global resource utilization efficiency in the industrial sector. *Science of the Total Environment*, **2013**, 461-462, 804-7	10.2	14
179	Life cycle assessment of nuclear-based hydrogen production via a copper–chlorine cycle: A neural network approach. *International Journal of Hydrogen Energy*, **2013**, 38, 6314-6322	6.7	10
178	Estimation of vertical and horizontal distribution of takeoff and climb NOx emission for commercial aircraft. *Energy Conversion and Management*, **2013**, 76, 121-127	10.6	8
177	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

176	Exergoeconomic analysis of double effect absorption refrigeration systems. *Energy Conversion and Management*, **2013**, 65, 13-25	10.6	99
175	Geothermal heat pump systems: Status review and comparison with other heating options. *Applied Energy*, **2013**, 101, 341-348	10.7	347
174	Exergoeconomic comparison of double effect and combined ejector-double effect absorption refrigeration systems. *Applied Energy*, **2013**, 103, 700-711	10.7	108
173	Environmental impact assessment of nuclear assisted hydrogen production via Cu□l thermochemical cycles. *Sustainable Cities and Society*, **2013**, 7, 16-24	10.1	5
172	Intelligent optimization of charge allocation for plug-in hybrid electric vehicles utilizing renewable energy considering grid characteristics **2013**,		3
171	Development and assessment of an integrated biomass-based multi-generation energy system. *Energy*, **2013**, 56, 155-166	7.9	168
170	Using Exergy to Correlate Energy Research Investments and Efficiencies: Concept and Case Studies. *Entropy*, **2013**, 15, 262-286	2.8	13
169	Exergoeconomic Analysis of a Residential Hybrid PV-Fuel Cell-Battery System. *Fuel Cells*, **2013**, 13, n/a-n/a	2.9	5
168	Engineering and Sustainability: Attitudes and Actions. *Sustainability*, **2013**, 5, 372-386	3.6	16
167	Approaching the Processes in the Generator Circuit Breaker at Disconnection through Sustainability Concepts. *Sustainability*, **2013**, 5, 1161-1176	3.6	5
166	Advances in Sustainability: Contributions and Outcomes of the 2nd World Sustainability Forum. *Sustainability*, **2013**, 5, 1208-1210	3.6	
165	A Review of the Modelling of Thermally Interacting Multiple Boreholes. *Sustainability*, **2013**, 5, 2519-2536	3.6	18
164	Environmental Impact Assessments of Integrated Multigeneration Energy Systems **2013**, 751-777		
163	Comparative Environmental Impact Assessment of Nuclear-Based Hydrogen Production via Mg□l and Cu□l Thermochemical Water Splitting Cycles **2013**, 433-459		
162	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
161	Examination of thermal interaction of multiple vertical ground heat exchangers. *Applied Energy*, **2012**, 97, 962-969	10.7	57
160	Reduction of hazards from copper(I) chloride in a Cu-Cl thermochemical hydrogen production plant. *Journal of Hazardous Materials*, **2012**, 229-230, 48-56	12.8	5
159	Comparative life cycle assessment of hydrogen and other selected fuels. *International Journal of Hydrogen Energy*, **2012**, 37, 9933-9940	6.7	31

158	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
157	Review of underground coal gasification technologies and carbon capture. *International Journal of Energy and Environmental Engineering*, **2012**, 3, 16	4	40
156	Exergy Analysis and its Connection to Life Cycle Assessment **2012**, 185-215		3
155	Heat extraction from supercritical water-cooled nuclear reactors for hydrogen production plants. *International Journal of Hydrogen Energy*, **2012**, 37, 16527-16534	6.7	3
154	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
153	Exergo-environmental analysis of an integrated organic Rankine cycle for trigeneration. *Energy Conversion and Management*, **2012**, 64, 447-453	10.6	193
152	Multi-objective exergy-based optimization of a polygeneration energy system using an evolutionary algorithm. *Energy*, **2012**, 46, 21-31	7.9	156
151	Integrated hydrogen production options based on renewable and nuclear energy sources. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 6059-6082	16.2	67
150	Green's function solution for transient heat conduction in annular fin during solidification of phase change material. *Applied Mathematics and Mechanics (English Edition)*, **2012**, 33, 1265-1274	3.2	1
149	Approaching Resonant Absorption of Environmental Xenobiotics Harmonic Oscillation by Linear Structures. *Sustainability*, **2012**, 4, 561-573	3.6	2
148	Noise Pollution Prevention in Wind Turbines: Status and Recent Advances. *Sustainability*, **2012**, 4, 1104-1167	3.6	24
147	On Thermally Interacting Multiple Boreholes with Variable Heating Strength: Comparison between Analytical and Numerical Approaches. *Sustainability*, **2012**, 4, 1848-1866	3.6	11
146	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
145	Investigation of an integrated hydrogen production system based on nuclear and renewable energy sources: a new approach for sustainable hydrogen production via copper–chlorine thermochemical cycles. *International Journal of Energy Research*, **2012**, 36, 1388-1394	4.5	19
144	Exergetic life cycle assessment of a hydrogen production process. *International Journal of Hydrogen Energy*, **2012**, 37, 5665-5675	6.7	25
143	District heating and cooling: Review of technology and potential enhancements. *Applied Energy*, **2012**, 93, 2-10	10.7	415
142	Utilizing the Exergy Concept to Address Environmental Challenges of Electric Systems. *Entropy*, **2012**, 14, 1894-1914	2.8	1
141	Use of low grade heat sources in combined ejector–double effect absorption refrigeration systems. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*, **2012**, 226, 607-622	1.6	13

140	Energy Analysis of a Biomass Co-firing Based Pulverized Coal Power Generation System. *Sustainability*, **2012**, 4, 462-490	3.6	23
139	Engineering Sustainability: A Technical Approach to Sustainability. *Sustainability*, **2012**, 4, 2270-2292	3.6	41
138	Sustainable Manufacturing and Design: Concepts, Practices and Needs. *Sustainability*, **2012**, 4, 154-174	3.6	192
137	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
136	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
135	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
134	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
133	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
132	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
131	Energy and exergy analyses of a biomass-based hydrogen production system. *Bioresource Technology*, **2011**, 102, 8466-74	11	101
130	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
129	Sustainability aspects of hydrogen and fuel cell systems. *Energy for Sustainable Development*, **2011**, 15, 137-146	5.4	55
128	Comparative performance investigation of integrated collector-storage solar water heaters with various heat loss reduction strategies. *International Journal of Energy Research*, **2011**, 35, 1179-1187	4.5	16
127	Thermodynamic analysis of a hybrid geothermal heat pump system. *Geothermics*, **2011**, 40, 233-238	4.3	44
126	Exergy analysis of a hybrid solar hydrogen system with activated carbon storage. *International Journal of Hydrogen Energy*, **2011**, 36, 3273-3282	6.7	17
125	A critical review of photovoltaic□thermal solar collectors for air heating. *Applied Energy*, **2011**, 88, 3603-3614	6.7	227
124	Integrated collector-storage solar water heater with extended storage unit. *Applied Thermal Engineering*, **2011**, 31, 348-354	5.8	38
123	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

122	Exergy analysis of heat exchangers in the copper–chlorine thermochemical cycle to enhance thermal effectiveness and cycle efficiency. *International Journal of Low-Carbon Technologies*, **2011**, 6, 156-164	2.8	4
121	Exergy Analysis of Green Energy Systems **2011**, 17-65		8
120	Feasibility Analysis of Sustainability-Based Measures to Reduce VOC Emissions in Office Partition Manufacturing. *Sustainability*, **2010**, 2, 624-644	3.6	3
119	Some Sustainability Aspects of Energy Conversion in Urban Electric Trains. *Sustainability*, **2010**, 2, 1389-1407	3.6	11
118	A Methodology for Assessing the Sustainability of Hydrogen Production from Solid Fuels. *Sustainability*, **2010**, 2, 1472-1491	3.6	13
117	Numerical Investigation of Local Entropy Generation for Laminar Flow in Rotating-Disk Systems. *Journal of Heat Transfer*, **2010**, 132,	1.8	4
116	Life Cycle Assessment of Hydrogen Production Using Nuclear Energy: An Application Based on Thermochemical Water Splitting. *Journal of Energy Resources Technology, Transactions of the ASME*, **2010**, 132,	2.6	22
115	Recent Advances in TES Methods, Technologies, and Applications **2010**, 483-583		1
114	The exergetic and environmental impact assessment of underground electric train braking. *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit*, **2010**, 224, 189-206	1.4	1
113	Economic and Environmental Comparison of Conventional and Alternative Vehicle Options **2010**, 1-17		3
112	Thermal performance of integrated collector storage solar water heater with corrugated absorber surface. *Applied Thermal Engineering*, **2010**, 30, 1764-1768	5.8	86
111	Hydrogen production from coal gasification for effective downstream CO2 capture. *International Journal of Hydrogen Energy*, **2010**, 35, 4933-4943	6.7	63
110	Thermodynamic analysis of hydrogen production from biomass gasification. *International Journal of Hydrogen Energy*, **2010**, 35, 4970-4980	6.7	124
109	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
108	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
107	Partial substitution of hydrogen for conventional fuel in an aircraft by utilizing unused cargo compartment space. *International Journal of Hydrogen Energy*, **2010**, 35, 1463-1473	6.7	12
106	Coupling of copper–chloride 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
105	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

104	Advances in hydrogen production by thermochemical water decomposition: A review. *Energy*, **2010**, 35, 1068-1076	7.9	154
103	**2010**,		96
102	EFFICIENCY ASSESSMENT OF GLYCOL COLD THERMAL ENERGY STORAGE AND EFFECT OF VARYING ENVIRONMENT TEMPERATURE. *Transactions of the Canadian Society for Mechanical Engineering*, **2009**, 33, 119-130	1.1	6
101	Using Exergy to Understand and Improve the Efficiency of Electrical Power Technologies. *Entropy*, **2009**, 11, 820-835	2.8	72
100	Effect of supplementary firing options on cycle performance and CO2 emissions of an IGCC power generation system. *International Journal of Energy Research*, **2009**, 33, 645-661	4.5	20
99	Assessment of emissions at busy airports. *International Journal of Energy Research*, **2009**, 34, 800-814	4.5	9
98	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
97	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
96	Utilizing hydrogen energy to reduce greenhouse gas emissions in Canada's residential sector. *International Journal of Hydrogen Energy*, **2009**, 34, 1631-1637	6.7	17
95	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
94	Energy and exergy analyses of the fluidized bed of a copper□chlorine cycle for nuclear-based hydrogen production via thermochemical water decomposition. *Chemical Engineering Research and Design*, **2009**, 87, 684-694	5.5	17
93	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
92	Improving the Sustainability of Office Partition Manufacturing: Balancing Options for Reducing Emissions of Volatile Organic Compounds. *Sustainability*, **2009**, 1, 234-253	3.6	5
91	Energy Sustainability: A Pragmatic Approach and Illustrations. *Sustainability*, **2009**, 1, 55-80	3.6	64
90	Energy and exergy analyses of the drying step of a copper-chlorine thermochemical cycle for hydrogen production. *International Journal of Exergy*, **2009**, 6, 793	1.2	20
89	Combating global warming via non-fossil fuel energy options. *International Journal of Global Warming*, **2009**, 1, 2	0.6	24
88	Performance assessment of a combined system to link a supercritical water-cooled nuclear reactor and a thermochemical water splitting cycle for hydrogen production. *Energy Conversion and Management*, **2008**, 49, 1873-1881	10.6	20
87	Critical Review of Exergy-Based Indicators for the Environmental Impact of Emissions. *International Journal of Green Energy*, **2008**, 5, 87-104	3	20

86	Using exergy to assess air pollution levels from a smokestack Part 1: methodology. *International Journal of Exergy*, **2008**, 5, 375	1.2	7
85	Thermodynamic Analysis of the Use a Chemical Heat Pump to Link a Supercritical Water-Cooled Nuclear Reactor and a Thermochemical Water-Splitting Cycle for Hydrogen Production. *Journal of Power and Energy Systems*, **2008**, 2, 756-767		18
84	Size considerations in applications of exergy analysis. *International Journal of Exergy*, **2008**, 5, 249	1.2	6
83	Exergy and industrial ecology: an application to an integrated energy system. *International Journal of Exergy*, **2008**, 5, 52	1.2	14
82	Allocating carbon dioxide emissions from cogeneration systems: descriptions of selected output-based methods. *Journal of Cleaner Production*, **2008**, 16, 171-177	10.3	76
81	Performance analysis of gas liquefaction cycles. *International Journal of Energy Research*, **2008**, 32, 35-43	4.5	27
80	Exergoeconomic analysis of glycol cold thermal energy storage systems. *International Journal of Energy Research*, **2008**, 32, 215-225	4.5	15
79	Role of exergy in increasing efficiency and sustainability and reducing environmental impact. *Energy Policy*, **2008**, 36, 128-137	7.2	442
78	Thermodynamic analysis of the copper production step in a copper□chlorine cycle for hydrogen production. *Thermochimica Acta*, **2008**, 480, 22-29	2.9	30
77	Energy and exergy assessments of the hydrogen production step of a copper□chlorine thermochemical water splitting cycle driven by nuclear-based heat. *International Journal of Hydrogen Energy*, **2008**, 33, 6456-6466	6.7	62
76	Improving the Efficiency of Electrical Systems via Exergy Methods **2007**,		1
75	Exergy Concept and its Application **2007**,		1
74	EXERGY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT **2007**, 36-59		93
73	Effect of altering combustion air flow on a steam power plant: energy and exergy analysis. *International Journal of Energy Research*, **2007**, 31, 219-231	4.5	18
72	Thermodynamic analysis of solar photovoltaic cell systems. *Solar Energy Materials and Solar Cells*, **2007**, 91, 153-159	6.4	117
71	Artificial neural network analysis of world green energy use. *Energy Policy*, **2007**, 35, 1731-1743	7.2	61
70	Understanding energy and exergy efficiencies for improved energy management in power plants. *Energy Policy*, **2007**, 35, 3967-3978	7.2	170
69	Exergetic life cycle assessment of hydrogen production from renewables. *Journal of Power Sources*, **2007**, 167, 461-471	8.9	101

68	Air pollution reduction via use of green energy sources for electricity and hydrogen production. *Atmospheric Environment*, **2007**, 41, 1777-1783	5.3	20
67	Improving Electrical Generating Station Efficiency by Varying Stack-Gas Temperature. *International Journal of Green Energy*, **2007**, 4, 589-600	3	1
66	Nuclear energy as a component of sustainable energy systems. *International Journal of Low-Carbon Technologies*, **2007**, 2, 109-125	2.8	4
65	Use of thermal energy storage for sustainable buildings. *Proceedings of Institution of Civil Engineers: Energy*, **2007**, 160, 113-121	0.7	1
64	ICONE15-10350 THERMODYNAMIC ANALYSIS OF THE USE A CHEMICAL HEAT PUMP TO LINK A SUPERCRITICAL WATER-COOLED NUCLEAR REACTOR AND A THERMOCHEMICAL WATER-SPLITTING CYCLE FOR HYDROGEN PRODUCTION. *The Proceedings of the International Conference on Nuclear Engineering (ICONE)*, **2007**, 2007.15, _ICONE1510-_ICONE1510	0.1	
63	Economic and environmental comparison of conventional, hybrid, electric and hydrogen fuel cell vehicles. *Journal of Power Sources*, **2006**, 159, 1186-1193	8.9	251
62	Thermodynamic analysis of wind energy. *International Journal of Energy Research*, **2006**, 30, 553-566	4.5	81
61	New Spatio-Temporal Wind Exergy Maps. *Journal of Energy Resources Technology, Transactions of the ASME*, **2006**, 128, 194-202	2.6	17
60	Empirical Comparison of Temperature-Distribution Models for Energy and Exergy Analyses of Stratified Thermal Energy Storages. *International Journal of Green Energy*, **2006**, 3, 291-307	3	7
59	An Exergy-Based Method for Allocating Carbon Dioxide Emissions from Cogeneration Systems - Part I: Comparison with Other Methods **2006**,		6
58	An Exergy-Based Method for Allocating Carbon Dioxide Emissions from Cogeneration Systems - Part II: Justification for Exergy Basis **2006**,		2
57	Economic Aspects of Greenhouse Gas Emissions Reduction by Utilisation of Wind and Solar Energies to Produce Electricity and hydrogen **2006**,		6
56	Application of temperature-distribution models to evaluate the energy and exergy of stratified thermal storages. *International Journal of Exergy*, **2006**, 3, 239	1.2	5
55	Assessing and improving the efficiencies of a steam power plant using exergy analysis. Part 2: improvements from modifying reheat pressure. *International Journal of Exergy*, **2006**, 3, 377	1.2	9
54	Assessing and improving the efficiencies of a steam power plant using exergy analysis. Part 1: assessment. *International Journal of Exergy*, **2006**, 3, 362	1.2	9
53	On the thermodynamic treatment of diffusion-like economic commodity flows. *International Journal of Exergy*, **2006**, 3, 103	1.2	9
52	Development of New Spatio-Temporal Wind Exergy Maps **2006**, 475		2
51	Life cycle assessment of hydrogen fuel cell and gasoline vehicles. *International Journal of Hydrogen Energy*, **2006**, 31, 337-352	6.7	170

50	Environmental and economic aspects of hydrogen production and utilization in fuel cell vehicles. *Journal of Power Sources*, **2006**, 157, 411-421	8.9	86
49	Thermodynamic aspects of renewables and sustainable development. *Renewable and Sustainable Energy Reviews*, **2005**, 9, 169-189	16.2	247
48	Efficiency analysis of a cogeneration and district energy system. *Applied Thermal Engineering*, **2005**, 25, 147-159	5.8	204
47	Energy-Related Education and Awareness: The Role and Place for Exergy in Policy Development. *International Journal of Green Energy*, **2005**, 1, 451-465	3	4
46	Energy Considerations in Design for Environment: Appropriate Energy Selection and Energy Efficiency. *International Journal of Green Energy*, **2004**, 1, 21-45	3	10
45	Price-driven economic order systems from a thermodynamic point of view. *International Journal of Production Research*, **2004**, 42, 5167-5184	7.8	52
44	Aerospace systems and exergy analysis: applications and methodology development needs. *International Journal of Exergy*, **2004**, 1, 411	1.2	37
43	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
42	A study of industrial steam process heating through exergy analysis. *International Journal of Energy Research*, **2004**, 28, 917-930	4.5	63
41	Effect of stratification on energy and exergy capacities in thermal storage systems. *International Journal of Energy Research*, **2004**, 28, 177-193	4.5	78
40	Exergy as a Driver for Achieving Sustainability. *International Journal of Green Energy*, **2004**, 1, 1-19	3	111
39	Thermodynamic assessment of an integrated system for cogeneration and district heating and cooling. *International Journal of Exergy*, **2004**, 1, 94	1.2	20
38	Exergetic Efficiencies and the Exergy Content of Terrestrial Solar Radiation. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2004**, 126, 673-676	2.3	10
37	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
36	Exergy methods for assessing and comparing thermal storage systems. *International Journal of Energy Research*, **2003**, 27, 415-430	4.5	120
35	Entropy production and exergy destruction: Part II Illustrative technologies. *International Journal of Hydrogen Energy*, **2003**, 28, 1315-1323	6.7	13
34	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
33	Exergy conservation: An alternative to conserving the already conserved quantity energy. *Exergy an International Journal*, **2002**, 2, 59-61		8

32	Energy crisis or exergy crisis?. *Exergy an International Journal*, **2002**, 2, 125-127		8
31	Exergetic environmental assessment of life cycle emissions for various automobiles and fuels. *Exergy an International Journal*, **2002**, 2, 283-294		41
30	Can exergy help us understand and address environmental concerns?. *Exergy an International Journal*, **2002**, 2, 214-217		24
29	Does industry embrace exergy?. *Exergy an International Journal*, **2002**, 2, 221-223		17
28	Exergy and government policy: Is there a link?. *Exergy an International Journal*, **2002**, 2, 224-226		3
27	Clarifying thermodynamic efficiencies and losses via exergy. *Exergy an International Journal*, **2002**, 2, 3-5		27
26	Thermodynamics education: Is present coverage of exergy sufficient and appropriate?. *Exergy an International Journal*, **2002**, 2, 207-210		4
25	Should we educate the public about exergy?. *Exergy an International Journal*, **2002**, 2, 211-213		1
24	Sensitivity of exergy efficiencies of aerospace engines to reference environment selection. *Exergy an International Journal*, **2001**, 1, 91-99		50
23	Exergy analysis of a fuel cell power system for transportation applications. *Exergy an International Journal*, **2001**, 1, 112-121		51
22	Energy- and exergy-based comparison of coal-fired and nuclear steam power plants. *Exergy an International Journal*, **2001**, 1, 180-192		107
21	Exergetic evaluation of the renewability of a biofuel. *Exergy an International Journal*, **2001**, 1, 256-268		71
20	The roles of science and technology in energy and environment research and development. *International Journal of Energy Research*, **2001**, 25, 1165-1187	4.5	11
19	Exergy as the confluence of energy, environment and sustainable development. *Exergy an International Journal*, **2001**, 1, 3-13		228
18	Thermodynamic Performance of Ice Thermal Energy Storage Systems. *Journal of Energy Resources Technology, Transactions of the ASME*, **2000**, 122, 205-211	2.6	32
17	Energy, environment and sustainable development. *Applied Energy*, **1999**, 64, 427-440	10.7	177
16	Energy and exergy analyses of cold thermal storage systems. *International Journal of Energy Research*, **1999**, 23, 1029-1038	4.5	46
15	Exergy analysis of waste emissions. *International Journal of Energy Research*, **1999**, 23, 1153-1163	4.5	150

14	A worldwide perspective on energy, environment and sustainable development. *International Journal of Energy Research*, **1998**, 22, 1305-1321	4.5	161
13	Sectoral Energy and Exergy Modeling of Turkey. *Journal of Energy Resources Technology, Transactions of the ASME*, **1997**, 119, 200-204	2.6	78
12	ON EXERGY AND ENVIRONMENTAL IMPACT. *International Journal of Energy Research*, **1997**, 21, 643-654	4.5	207
11	Energy and exergy analyses of PFBC power plants **1995**, 419-448		14
10	Environmental and Health Benefits of Utility-Based Cogeneration in Ontario, Canada. *Energy and Environment*, **1994**, 5, 363-378	2.4	6
9	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
8	The Angular Distribution of Diffuse Sky Radiance: An Assessment of the Effects of Haze. *Journal of Solar Energy Engineering, Transactions of the ASME*, **1991**, 113, 200-205	2.3	2
7	EVALUATION OF THE HEAT LOSS FROM PARTIALLY BURIED, BERMED THERMAL ENERGY STORAGE TANKS. *International Journal of Solar Energy*, **1990**, 9, 147-162		7
6	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
5	Assessment of a Geothermal Combined System with an Organic Rankine Cycle and Multi-effect Distillation Desalination. *Earth Systems and Environment*,1	7.5	0
4	Optimal scheduling of residential building energy system under B2G, G2B and B2B operation modes. *International Journal of Energy and Environmental Engineering*,1	4	0
3	Exergy consumption and entropy generation rates of earth: an assessment for the planet and its primary systems. *Energy, Ecology and Environment*,1	3.5	
2	A comprehensive sensitivity analysis on the performance of pseudo-steady propane thermal cracking process. *Environmental Progress and Sustainable Energy*,e13731	2.5	
1	Transition of heavy-duty trucks from diesel to hydrogen fuel cells: Opportunities, challenges, and recommendations. *International Journal of Energy Research*,	4.5	0