Optimization methods applied to renewable and sustain

Renewable and Sustainable Energy Reviews 15, 1753-1766

DOI: 10.1016/j.rser.2010.12.008

Citation Report

#	Article	IF	Citations
1	Optimization of wind turbine energy and power factor with an evolutionary computation algorithm. Energy, 2010, 35, 1324-1332.	8.8	110
2	A new three-stage method for solving unit commitment problem. Energy, 2010, 35, 3072-3080.	8.8	47
3	Wave energy converter in Galicia: Proposal of certification. , $2011, \ldots$		0
4	Intelligent analysis and design of heat pump based hybrid renewable energy systems operating in the Irish cool marine climate. , $2011, \ldots$		O
5	Maximizing the Life Cycle Primary Energy Savings of an Integrated Solar Absorption Cooling and Heating System for a Medium-Sized Office Building in Los Angeles, California. , $2011, \dots$		1
6	A review on energy scenario and sustainable energy in Iran. Renewable and Sustainable Energy Reviews, 2011, 15, 4652-4658.	16.4	82
7	Attitude and acceptance of offshore wind farmsâ€"The influence of travel time and wind farm attributes. Renewable and Sustainable Energy Reviews, 2011, 15, 4223-4235.	16.4	52
8	Photovoltaic power generation: A review. , 2011, , .		7
9	Design explorations of performance driven geometry in architectural design using parametric modeling and genetic algorithms. Advanced Engineering Informatics, 2011, 25, 656-675.	8.0	240
10	An optimization model for a mechanical vapor compression desalination plant driven by a wind/PV hybrid system. Applied Energy, 2011, 88, 4042-4054.	10.1	59
11	Photovoltaics literature survey (no. 85). Progress in Photovoltaics: Research and Applications, 2011, 19, 375-377.	8.1	5
12	The green brewery concept – Energy efficiency and the use of renewable energy sources in breweries. Applied Thermal Engineering, 2011, 31, 2123-2134.	6.0	80
13	Open source tool for energy saving and efficient system management., 2011,,.		0
14	Dynamic Feasible Region Genetic Algorithm for Optimal Operation of a Multi-Reservoir System. Energies, 2012, 5, 2894-2910.	3.1	15
15	Electric Energy Consumption of the Full Scale Research Biogas Plant "Unterer Lindenhof― Results of Longterm and Full Detail Measurements. Energies, 2012, 5, 5198-5214.	3.1	57
16	Integrating waste biomass into thermal energy production systems: a strategic methodological framework. Civil Engineering and Environmental Systems, 2012, 29, 255-272.	0.9	7
17	Grid-connected photovoltaic-systems design using evolutionary strategies. Journal of Renewable and Sustainable Energy, 2012, 4, 013123.	2.0	1
18	A dynamic decision model for Smart Grid real time optimal control. , 2012, , .		3

#	Article	IF	CITATIONS
19	Sizing methods for stand-alone hybrid systems based on renewable energies and hydrogen., 2012,,.		18
20	An optimization model for regional renewable energy development. Renewable and Sustainable Energy Reviews, 2012, 16, 4606-4615.	16.4	86
21	Coordinated control of battery storage system and diesel generators in AC island microgrid., 2012,,.		10
22	A new perspective in optimum sizing of hybrid renewable energy systems: Consideration of component performance degradation issue. International Journal of Hydrogen Energy, 2012, 37, 10479-10488.	7.1	43
23	Optimized day-ahead hydrothermal wind energy systems scheduling using parallel PSO., 2012,,.		11
24	Enhanced hydrogen production performance of Rubrivivax gelatinosus M002 using mixed carbon sources. International Journal of Hydrogen Energy, 2012, 37, 13296-13303.	7.1	28
25	Superstructure-free synthesis and optimization of distributed industrial energy supply systems. Energy, 2012, 45, 424-435.	8.8	53
26	Optimization of Korean energy planning for sustainability considering uncertainties in learning rates and external factors. Energy, 2012, 44, 126-134.	8.8	36
27	Preliminary determination of optimal size for renewable energy resources in buildings using RETScreen. Energy, 2012, 47, 83-96.	8.8	76
28	Proposal for a low CO2 emission power generation system utilizing oceanic methane hydrate. Energy, 2012, 47, 340-347.	8.8	32
29	Energy resources optimization model in large-scale based on aggregate node. , 2012, , .		1
30	Recent progress on renewable energy in engineering thermophysics. Science Bulletin, 2012, 57, 4400-4403.	1.7	0
32	Modeling global solar radiation using Particle Swarm Optimization (PSO). Solar Energy, 2012, 86, 3137-3145.	6.1	130
33	Combined Monte Carlo simulation and OPF to evaluate the market impact of wind energy. , 2012, , .		2
34	Nationwide energy supply chain analysis for hybrid feedstock processes with significant CO ₂ emissions reduction. AICHE Journal, 2012, 58, 2142-2154.	3.6	51
35	Distributed generation planning using differential evolution accounting voltage stability consideration. International Journal of Electrical Power and Energy Systems, 2012, 42, 196-207.	5 . 5	115
36	Density functional and bonding study of hydrogen and platinum adsorption on B2-FeTi (111) slab. International Journal of Hydrogen Energy, 2012, 37, 2661-2668.	7.1	9
37	Modeling and optimization of an energy generation island based on renewable technologies and hydrogen storage systems. International Journal of Hydrogen Energy, 2012, 37, 2081-2093.	7.1	122

#	ARTICLE	IF	Citations
38	Thermal optimization of a single inlet T-junction. International Journal of Thermal Sciences, 2012, 53, 108-118.	4.9	10
39	Optimum policy for integration of renewable energy sources into the power generation system. Energy Economics, 2012, 34, 558-567.	12.1	15
40	Sizing, techno-economic and generation management analysis of a stand alone photovoltaic power unit including storage devices. Energy, 2012, 40, 196-209.	8.8	70
41	The current state of offshore wind energy technology development. Energy, 2012, 41, 298-312.	8.8	291
42	A review of multi-criteria decision-making methods for bioenergy systems. Energy, 2012, 42, 146-156.	8.8	156
43	Evolutionary algorithms for the design of grid-connected PV-systems. Expert Systems With Applications, 2012, 39, 8086-8094.	7.6	27
44	A study on Kalina solar system with an auxiliary superheater. Renewable Energy, 2012, 41, 210-219.	8.9	50
45	Implementation of renewable energy in Scottish rural area: A social study. Renewable and Sustainable Energy Reviews, 2012, 16, 185-191.	16.4	36
46	Energy models for demand forecasting—A review. Renewable and Sustainable Energy Reviews, 2012, 16, 1223-1240.	16.4	910
47	Characterization of solar flat plate collectors. Renewable and Sustainable Energy Reviews, 2012, 16, 1709-1720.	16.4	58
48	A comprehensive method for optimal power management and design of hybrid RES-based autonomous energy systems. Renewable and Sustainable Energy Reviews, 2012, 16, 1577-1587.	16.4	154
49	Analyzing the Greek renewable energy sector: A Data Envelopment Analysis approach. Renewable and Sustainable Energy Reviews, 2012, 16, 2884-2893.	16.4	52
50	A review of urban energy system models: Approaches, challenges and opportunities. Renewable and Sustainable Energy Reviews, 2012, 16, 3847-3866.	16.4	456
51	Multi-objective optimization of a stand-alone hybrid renewable energy system by using evolutionary algorithms: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 3364-3369.	16.4	356
52	Insects for biodiesel production. Renewable and Sustainable Energy Reviews, 2012, 16, 3744-3753.	16.4	119
53	An intelligent method for sizing optimization in grid-connected photovoltaic system. Solar Energy, 2012, 86, 2067-2082.	6.1	71
54	Evaluation of a charcoal production process from forest residues of Quercus sideroxyla Humb., & Samp; Bonpl. in a Brazilian beehive kiln. Industrial Crops and Products, 2013, 42, 169-174.	5.2	34
55	Assessing Wind Turbines Placement in a Distribution Market Environment by Using Particle Swarm Optimization. IEEE Transactions on Power Systems, 2013, 28, 3852-3864.	6.5	49

#	ARTICLE	IF	CITATIONS
56	Status of molecular breeding for improving Jatropha curcas and biodiesel. Renewable and Sustainable Energy Reviews, 2013, 26, 332-343.	16.4	30
57	Experimental investigation of the effect of using closed-loop pulsating heat pipe on the performance of a flat plate solar collector. Journal of Renewable and Sustainable Energy, 2013, 5, 013106.	2.0	32
58	Distributed solar electricity generation across large geographic areas, Part I: A method to optimize site selection, generation and storage. Renewable and Sustainable Energy Reviews, 2013, 25, 831-843.	16.4	47
59	Probabilistic Assessment of the Impact of Wind Energy Integration Into Distribution Networks. IEEE Transactions on Power Systems, 2013, 28, 4209-4217.	6.5	50
60	Optimum estimation and forecasting of renewable energy consumption by artificial neural networks. Renewable and Sustainable Energy Reviews, 2013, 27, 605-612.	16.4	93
61	Heuristic indicators for the design of community off-grid electrification systems based on multiple renewable energies. Energy, 2013, 50, 501-512.	8.8	26
62	A review on the microwave-assisted pyrolysis technique. Renewable and Sustainable Energy Reviews, 2013, 28, 317-330.	16.4	445
63	Analytical model as a tool for the sizing of a hydrogen production system based on renewable energy: The Mexican Caribbean as a case of study. International Journal of Hydrogen Energy, 2013, 38, 12562-12569.	7.1	17
64	Comparative study of stand-alone and hybrid solar energy systems suitable for off-grid rural electrification: A review. Renewable and Sustainable Energy Reviews, 2013, 27, 738-752.	16.4	206
65	Power sector renewable energy integration for expanding access to electricity in sub-Saharan Africa. Renewable and Sustainable Energy Reviews, 2013, 25, 630-642.	16.4	98
66	EXPANSE methodology for evaluating the economic potential of renewable energy from an energy mix perspective. Applied Energy, 2013, 111, 593-601.	10.1	47
67	Multi-objective ranking of climate change mitigation policies and measures in Lithuania. Renewable and Sustainable Energy Reviews, 2013, 18, 144-153.	16.4	48
68	Precise ultrafast laser micromachining in thin-film CIGS photovoltaic modules. Microelectronic Engineering, 2013, 110, 381-385.	2.4	15
69	Solar steam reforming of natural gas integrated with a gas turbine power plant. Solar Energy, 2013, 96, 46-55.	6.1	34
70	Equivalent electrical circuit modelling of a Proton Exchange Membrane electrolyser based on current interruption., 2013,,.		7
71	Optimal allocation of thermal, electric and cooling loads among generation technologies in household applications. Applied Energy, 2013, 112, 205-214.	10.1	18
72	Aligned carbon nanotube from catalytic chemical vapor deposition technique for energy storage device: a review. Ionics, 2013, 19, 1455-1476.	2.4	58
73	Economic analysis of alternatives for optimizing energy use in manufacturing companies. Energy Economics, 2013, 40, 146-154.	12.1	6

#	Article	IF	Citations
74	Parameter extraction of solar cell models using repaired adaptive differential evolution. Solar Energy, 2013, 94, 209-220.	6.1	312
75	Voltage Stability Constrained Distributed Generation Planning using Modified Bare Bones Particle Swarm Optimization. Journal of the Institution of Engineers (India): Series B, 2013, 94, 123-133.	1.9	7
77	Heating water using the recovered chimney waste heat - Prototype and experimental analysis. , 2013, , .		6
78	A novel mathematical modeling approach to the electric dispatch problem: Case study using Differential Evolution algorithms. , 2013 , , .		5
79	Correlating the power conversion of a PV panel to the solar irradiance obtained from Meteonorm. , 2013, , .		4
80	A scheduling optimization model for sun tracking of an autonomous heliostat. , 2013, , .		4
81	Design and analysis of an HVAC-based heat recovery system. , 2013, , .		8
82	Gas evolution and syngas heating value from advanced thermal treatment of waste using microwave-induced plasma. Renewable Energy, 2013, 50, 1065-1072.	8.9	23
83	Multi-objective optimization of integrated solar absorption cooling and heating systems for medium-sized office buildings. Renewable Energy, 2013, 52, 67-78.	8.9	54
84	Scientific production of renewable energies worldwide: An overview. Renewable and Sustainable Energy Reviews, 2013, 18, 134-143.	16.4	278
85	The University of Genoa smart polygeneration microgrid test-bed facility: The overall system, the technologies and the research challenges. Renewable and Sustainable Energy Reviews, 2013, 18, 442-459.	16.4	91
86	Solar assisted sea water desalination: A review. Renewable and Sustainable Energy Reviews, 2013, 19, 136-163.	16.4	386
87	Review of the energy supply status for sustainable development in the Organization of Islamic Conference. Renewable and Sustainable Energy Reviews, 2013, 28, 18-28.	16.4	21
88	Potential of bioenergy production from industrial hemp (Cannabis sativa): Pakistan perspective. Renewable and Sustainable Energy Reviews, 2013, 18, 154-164.	16.4	128
89	Pareto-based evolutionary algorithms for the calculation of transformation parameters and accuracy assessment of historical maps. Computers and Geosciences, 2013, 57, 124-132.	4.2	20
90	Energy trends in Palestinian territories of West Bank and Gaza Strip: Possibilities for reducing the reliance on external energy sources. Renewable and Sustainable Energy Reviews, 2013, 28, 117-129.	16.4	28
91	Demand response in smart electricity grids equipped with renewable energy sources: A review. Renewable and Sustainable Energy Reviews, 2013, 18, 64-72.	16.4	552
92	Sizing optimization, dynamic modeling and energy management strategies of a stand-alone PV/hydrogen/battery-based hybrid system. International Journal of Hydrogen Energy, 2013, 38, 3830-3845.	7.1	227

#	ARTICLE	IF	CITATIONS
93	A review of photovoltaic systems size optimization techniques. Renewable and Sustainable Energy Reviews, 2013, 22, 454-465.	16.4	207
94	A hybrid tool to combine multi-objective optimization and multi-criterion decision making in designing standalone hybrid energy systems. Applied Energy, 2013, 107, 412-425.	10.1	171
95	A review of computational optimisation methods applied to sustainable building design. Renewable and Sustainable Energy Reviews, 2013, 22, 230-245.	16.4	517
96	A building integrated solar collector: All-ceramic solar collector. Energy and Buildings, 2013, 62, 15-17.	6.7	53
97	Value chain optimization of forest biomass for bioenergy production: A review. Renewable and Sustainable Energy Reviews, 2013, 23, 299-311.	16.4	190
98	Optimal wind turbines placement within a distribution market environment. Applied Soft Computing Journal, 2013, 13, 4038-4046.	7.2	21
99	Iterative non-deterministic algorithms in on-shore wind farm design: A brief survey. Renewable and Sustainable Energy Reviews, 2013, 19, 370-384.	16.4	86
100	Evaluating the integration of wind power into distribution networks by using Monte Carlo simulation. International Journal of Electrical Power and Energy Systems, 2013, 53, 244-255.	5.5	39
101	A review on the methods for biomass to energy conversion systems design. Renewable and Sustainable Energy Reviews, 2013, 25, 420-430.	16.4	117
102	Optimization of passive solar design strategies: A review. Renewable and Sustainable Energy Reviews, 2013, 25, 177-196.	16.4	187
103	AC-microgrids versus DC-microgrids with distributed energy resources: A review. Renewable and Sustainable Energy Reviews, 2013, 24, 387-405.	16.4	1,004
104	Combined Monte Carlo simulation and OPF for wind turbines integration into distribution networks. Electric Power Systems Research, 2013, 103, 37-48.	3.6	31
105	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil in solvent-free system. Enzyme and Microbial Technology, 2013, 53, 154-158.	3.2	34
106	Experimental Investigation of a Spiral-Wound Pressure-Retarded Osmosis Membrane Module for Osmotic Power Generation. Environmental Science & Eamp; Technology, 2013, 47, 2966-2973.	10.0	83
107	Optimal Home Energy Management Under Dynamic Electrical and Thermal Constraints. IEEE Transactions on Industrial Informatics, 2013, 9, 1518-1527.	11.3	225
108	Optimal allocation of wind turbines in microgrids by using genetic algorithm. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 613-619.	4.9	30
109	A Methodology for Defining Electricity Demand in Energy Simulations Referred to the Italian Context. Energies, 2013, 6, 6274-6292.	3.1	23
110	Bio-Inspired Optimization of Sustainable Energy Systems: A Review. Mathematical Problems in Engineering, 2013, 2013, 1-12.	1.1	34

#	Article	IF	CITATIONS
111	Role of Energy Management in Hybrid Renewable Energy Systems: Case Study Based Analysis Considering Varying Seasonal Conditions. Turkish Journal of Electrical Engineering and Computer Sciences, 2013, , .	1.4	10
112	Field Measurement of PV Array Temperature for Tracking and Concentrating 1 k <mml:math id="M1" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>W</mml:mtext></mml:mrow><mml:mrow><mml:mrow><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:< td=""><td>ntext>p<!--</td--><td>mml:mtext</td></td></mml:<></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:mrow></mml:mrow></mml:msub></mml:mrow></mml:math>	ntext>p </td <td>mml:mtext</td>	mml:mtext
113	A Power Load Distribution Algorithm to Optimize Data Center Electrical Flow. Energies, 2013, 6, 3422-3443.	3.1	13
114	Renewable Energy and Carbon Footprint Emission at University Technology Malaysia (UTM). Advanced Materials Research, 0, 734-737, 1861-1864.	0.3	3
115	Design, analysis and prototyping of a lowâ€cost monopole machine. IET Electric Power Applications, 2013, 7, 287-294.	1.8	0
116	PREPARATION OF METEOROLOGICAL DATA FOR INCREASING RENEWABLE ENERGY INTEGRATION / METEOROLOGINIŲ DUOMENŲ RENGIMAS ATSINAUJINANČIOSIOS ENERGIJOS INTEGRAVIMO PROCESUI SKATI Science: Future of Lithuania, 2013, 5, 442-448.	NOT IL	0
117	Use of energy storage for Belgian power network. , 2013, , .		3
118	An extension of compromise ranking method with interval numbers for the evaluation of renewable energy sources. Management Science Letters, 2014, 4, 1069-1076.	1.5	1
119	Assessment of Renewable Energy Technology and a Case of Sustainable Energy in Mobile Telecommunication Sector. Scientific World Journal, The, 2014, 2014, 1-13.	2.1	21
120	Impact of Large-Scale Wind Power Integration on Small Signal Stability Based on Stability Region Boundary. Sustainability, 2014, 6, 7921-7944.	3.2	18
121	Real-Time Operation Management of CHP System in Manufacturing Industry. Modern Applied Science, 2014, 9, .	0.6	6
122	The quantitative effect of geographical dispersion of intermittent renewable energy sources on output power variation balancing. , 2014, , .		2
123	Harmonization of new wind turbine rotor blades development process: A review. Renewable and Sustainable Energy Reviews, 2014, 39, 874-882.	16.4	40
124	Refined Diebold-Mariano Test Methods for the Evaluation of Wind Power Forecasting Models. Energies, 2014, 7, 4185-4198.	3.1	46
125	Statistical Diagnosis of the Best Weibull Methods for Wind Power Assessment for Agricultural Applications. Energies, 2014, 7, 3056-3085.	3.1	135
126	Metaheuristic Algorithms Applied to Bioenergy Supply Chain Problems: Theory, Review, Challenges, and Future. Energies, 2014, 7, 7640-7672.	3.1	31
127	A low-cost solar cell charger prototype for smartphone's battery charging. , 2014, , .		0
128	Application of waste heat recovery concepts to generators $\$*x2014$; Thermal modeling and analysis., 2014, , .		1

#	ARTICLE	IF	CITATIONS
129	A comparative analysis of the development of renewable energy in Brazil and Germany. Latin American J of Management for Sustainable Development, 2014, 1, 146.	0.0	1
130	GA optimization of Hybrid Energy Systems for telecommunications in marginalised rural areas. , 2014, , .		1
131	Today's and Future Challenges in Applications of Renewable Energy Technologies for Desalination. Critical Reviews in Environmental Science and Technology, 2014, 44, 929-999.	12.8	49
132	An efficient model based on artificial bee colony optimization algorithm with Neural Networks for electric load forecasting. Neural Computing and Applications, 2014, 25, 1967-1978.	5.6	55
133	An evolutionary approach to improve efficiency for solving the electric dispatch problem. , 2014, , .		0
134	Optimal coordinated control of diesel generator and battery storage system of stand-alone Microgrid. , 2014, , .		3
135	Load management of data centers as regulation capacity in Denmark. , 2014, , .		11
136	Experimental Analysis and Thermal Behavior of Conventional Flat Plate Collector and Sun Point Collector of 1 m ² Area. Applied Mechanics and Materials, 0, 592-594, 1852-1858.	0.2	1
137	Research on Optimal Allocation of Microgrid System Based on Two Layers of Coordinated Dispatch. Advanced Materials Research, 2014, 1070-1072, 819-822.	0.3	0
138	Optimisation of Storage for Concentrated Solar Power Plants. Challenges, 2014, 5, 473-503.	1.7	7
139	A review on simulation-based optimization methods applied to building performance analysis. Applied Energy, 2014, 113, 1043-1058.	10.1	925
140	Modelling and optimization of CO2 abatement strategies. Journal of Cleaner Production, 2014, 71, 40-47.	9.3	34
141	Energy systems modeling for twenty-first century energy challenges. Renewable and Sustainable Energy Reviews, 2014, 33, 74-86.	16.4	735
142	Graphite Felt Modified with Bismuth Nanoparticles as Negative Electrode in a Vanadium Redox Flow Battery. ChemSusChem, 2014, 7, 914-918.	6.8	113
143	Modeling of biomass-to-energy supply chain operations: Applications, challenges and research directions. Energy Policy, 2014, 67, 116-126.	8.8	226
144	Renewable energy production in Spain: A review. Renewable and Sustainable Energy Reviews, 2014, 33, 509-531.	16.4	104
145	A review on optimized control systems for building energy and comfort management of smart sustainable buildings. Renewable and Sustainable Energy Reviews, 2014, 34, 409-429.	16.4	633
146	Microgrids in active network managementâ€"Part I: Hierarchical control, energy storage, virtual power plants, and market participation. Renewable and Sustainable Energy Reviews, 2014, 36, 428-439.	16.4	262

#	Article	IF	CITATIONS
147	Interfacing renewable energy sources for maximum power transferâ€"Part I: Statics. Renewable and Sustainable Energy Reviews, 2014, 31, 501-508.	16.4	23
148	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickel–phosphorus–alumina aerogel catalyst. International Journal of Hydrogen Energy, 2014, 39, 4909-4916.	7.1	16
149	The key technologies and development of offshore wind farm in China. Renewable and Sustainable Energy Reviews, 2014, 34, 453-462.	16.4	31
150	A review of soft computing methods for harmonics elimination PWM for inverters in renewable energy conversion systems. Renewable and Sustainable Energy Reviews, 2014, 33, 141-153.	16.4	89
151	Multi-objective evolutionary algorithms for the design of grid-connected solar tracking systems. International Journal of Electrical Power and Energy Systems, 2014, 61, 371-379.	5.5	9
152	Comparison of different lead–acid battery lifetime prediction models for use in simulation of stand-alone photovoltaic systems. Applied Energy, 2014, 115, 242-253.	10.1	279
153	Hybrid renewable energy systems for off-grid electric power: Review of substantial issues. Renewable and Sustainable Energy Reviews, 2014, 35, 527-539.	16.4	212
154	Energy storage systems for renewable energy power sector integration and mitigation of intermittency. Renewable and Sustainable Energy Reviews, 2014, 35, 499-514.	16.4	419
155	Esterification of oleic acid to biodiesel using magnetic ionic liquid: Multi-objective optimization and kinetic study. Applied Energy, 2014, 114, 809-818.	10.1	104
156	The research on energy in spain: A scientometric approach. Renewable and Sustainable Energy Reviews, 2014, 29, 173-183.	16.4	53
157	Methods to optimise the design and management of biomass-for-bioenergy supply chains: A review. Renewable and Sustainable Energy Reviews, 2014, 31, 657-670.	16.4	264
158	A comprehensive review on wind turbine power curve modeling techniques. Renewable and Sustainable Energy Reviews, 2014, 30, 452-460.	16.4	366
159	Optimization of China's energy structure based on portfolio theory. Energy, 2014, 77, 890-897.	8.8	50
160	A survey of integrated decision analysis in energy and environmental modeling. Energy, 2014, 77, 691-702.	8.8	38
161	A fluorescent probe for water content in ethanol based on a complex of ruthenium(<scp>ii</scp>). Analytical Methods, 2014, 6, 202-206.	2.7	12
162	Turkey's long-term generation expansion planning with the inclusion of renewable-energy sources. Computers and Electrical Engineering, 2014, 40, 2050-2061.	4.8	21
163	Optimal power dispatching strategies in smart-microgrids with storage. Renewable and Sustainable Energy Reviews, 2014, 40, 649-658.	16.4	48
164	Biogas Production from Co-digestion of Pennisetum Pururem cv. Pakchong 1 Grass and Layer Chicken Manure Using Completely Stirred Tank. Energy Procedia, 2014, 52, 216-222.	1.8	22

#	Article	IF	CITATIONS
165	Homeostatic control, smart metering and efficient energy supply and consumption criteria: A means to building more sustainable hybrid micro-generation systems. Renewable and Sustainable Energy Reviews, 2014, 38, 235-258.	16.4	35
166	Strategic placement of distribution network operator owned wind turbines by using marketâ€based optimal power flow. IET Generation, Transmission and Distribution, 2014, 8, 281-289.	2.5	18
167	Grid-connected distributed energy generation system planning and scheduling. Desalination and Water Treatment, 2014, 52, 1202-1213.	1.0	5
168	Equipment sizing in a coal-fired municipal heating plant modernisation project with support for renewable energy and cogeneration technologies. Energy Conversion and Management, 2014, 86, 1050-1058.	9.2	6
169	A heuristic method to design autonomous village electrification projects with renewable energies. Energy, 2014, 73, 96-109.	8.8	15
170	Risk averse optimal operation of a virtual power plant using two stage stochastic programming. Energy, 2014, 73, 958-967.	8.8	137
171	Reactive modelling of on-site energy system components for real-time application. , 2014, , .		4
172	Optimization classification, algorithms and tools for renewable energy: A review. Renewable and Sustainable Energy Reviews, 2014, 39, 640-654.	16.4	189
173	An advanced energy management of microgrid system based on genetic algorithm., 2014,,.		30
174	Novel fuzzy logic based sensorless maximum power point tracking strategy for wind turbine systems driven DFIG (doubly-fed induction generator). Energy, 2014, 76, 679-693.	8.8	110
175	Modeling and optimization of integrated renewable energy system for a rural site., 2014,,.		23
176	Optimal sizing of stand-alone hybrid systems based on PV/WT/FC by using several methodologies. Journal of the Energy Institute, 2014, 87, 330-340.	5.3	69
177	Multi-objective optimal design of hybrid renewable energy systems using PSO-simulation based approach. Renewable Energy, 2014, 68, 67-79.	8.9	316
179	Generating power from speed-bump. Prototype developement and experimental study. , 2014, , .		1
180	International Congress on Energy Efficiency and Energy Related Materials (ENEFM2013). Springer Proceedings in Physics, 2014, , .	0.2	5
181	A hybrid approach for the efficient synthesis of renewable energy systems. Applied Energy, 2014, 135, 625-633.	10.1	48
182	Wind turbine selection for wind farm layout using multi-objective evolutionary algorithms. Expert Systems With Applications, 2014, 41, 6585-6595.	7.6	77
183	Optimal sizing of a multi-source energy plant for power heat and cooling generation. Applied Thermal Engineering, 2014, 71, 736-750.	6.0	50

#	Article	IF	CITATIONS
184	Renewable energy research progress in Mexico: A review. Renewable and Sustainable Energy Reviews, 2014, 32, 140-153.	16.4	179
185	Chance constrained programming using non-Gaussian joint distribution function in design of standalone hybrid renewable energy systems. Energy, 2014, 66, 677-688.	8.8	35
186	Hydrogen supply chain architecture for bottom-up energy systems models. Part 1: Developing pathways. International Journal of Hydrogen Energy, 2014, 39, 8881-8897.	7.1	45
187	Optimal grid design and logistic planning for wind and biomass based renewable electricity supply chains under uncertainties. Energy, 2014, 70, 514-528.	8.8	37
188	Hydropower recovery in water supply systems: Models and case study. Energy Conversion and Management, 2014, 84, 414-426.	9.2	42
189	Thermo-economic design optimization of parabolic trough solar plants for industrial process heat applications with memetic algorithms. Applied Energy, 2014, 113, 603-614.	10.1	69
190	The assessment of evolutionary algorithms for analyzing the positional accuracy and uncertainty of maps. Expert Systems With Applications, 2014, 41, 6346-6360.	7.6	7
191	Prospects of applying ionic liquids and deep eutectic solvents for renewable energy storage by means of redox flow batteries. Renewable and Sustainable Energy Reviews, 2014, 30, 254-270.	16.4	212
192	Wind energy resource in Northern Mexico. Renewable and Sustainable Energy Reviews, 2014, 32, 890-914.	16.4	69
193	Producing, storing, using and selling renewable energy: The best mix for the small medium industry. Computers in Industry, 2014, 65, 408-418.	9.9	15
194	Renewable energy projects to electrify rural communities in Cape Verde. Applied Energy, 2014, 118, 280-291.	10.1	55
195	Comparison of genetic algorithm to particle swarm for constrained simulation-based optimization of a geothermal power plant. Advanced Engineering Informatics, 2014, 28, 81-90.	8.0	36
196	Control of solar absorbance and thermal emittance of Cr-doped Sm0.5Sr0.5CoO3. Solar Energy, 2014, 105, 20-26.	6.1	7
197	Key technologies of VSC-HVDC and its application on offshore wind farm in China. Renewable and Sustainable Energy Reviews, 2014, 36, 247-255.	16.4	35
198	A comprehensive review of maximum power point tracking algorithms for photovoltaic systems. Renewable and Sustainable Energy Reviews, 2014, 37, 585-598.	16.4	265
199	Design and implementation of a microcontroller-based wind energy conversion system. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 1582-1595.	1.4	6
200	GIS-Based Planning and Modeling for Renewable Energy: Challenges and Future Research Avenues. ISPRS International Journal of Geo-Information, 2014, 3, 662-692.	2.9	104
201	Interdependent Multi-objective Sizing and Control Optimisation of a Renewable Energy Hydrogen System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10257-10262.	0.4	0

#	Article	IF	CITATIONS
202	Optimization of Load Allocation Strategy of a Multi-source Energy System by Means of Dynamic Programming. Energy Procedia, 2015, 81, 30-39.	1.8	7
203	Optimal operation of microgrid composed of small hydropower and photovoltaic generation with energy storage based on multiple scenarios technique. , 2015, , .		5
204	Network constrained optimal automatic generation control for a two area power System. , 2015, , .		3
205	Two-stage stochastic day-ahead optimal resource scheduling in a distribution network with intensive use of distributed energy resources. , 2015, , .		1
206	An Integrated Control and Design Framework for Optimizing Energy Capture and Component Life for a Wind Turbine Variable Ratio Gearbox. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	5
207	Optimization of Renewable Energy Power Systems for Remote Communities. , 2015, , .		1
208	Modeling and design of hybrid energy system considering degradation and emission. , 2015, , .		1
209	Do we really have to consider data mining techniques for meteorological data. , 2015, , .		5
210	Hardware implementation of a Test Lab for Smart Home environments. , 2015, , .		0
211	Analysis of internal shading degree to a prototype of dynamics photovoltaic greenhouse through simulation software. Journal of Agricultural Engineering, 2015, 46, 144.	1.5	15
212	Design of the Secondary Optical Elements for Concentrated Photovoltaic Units with Fresnel Lenses. Applied Sciences (Switzerland), 2015, 5, 770-786.	2.5	24
213	The Role of Technical Innovation and Sustainability on Energy Consumption: A Case Study on the Taiwanese Automobile Industry. Energies, 2015, 8, 6627-6640.	3.1	3
214	Design of Sustainable Biofuel Processes and Supply Chains: Challenges and Opportunities. Processes, 2015, 3, 634-663.	2.8	36
215	A Process for the Implementation of New Renewable Energy Systems in a Building by Considering Environmental and Economic Effect. Sustainability, 2015, 7, 12870-12890.	3.2	12
216	Optimal Design of a Secondary Optical Element for a Noncoplanar Two-Reflector Solar Concentrator. International Journal of Photoenergy, 2015, 2015, 1-8.	2.5	4
217	Research on the Multi-Period Small-Signal Stability Probability of a Power System with Wind Farms Based on the Markov Chain. Sustainability, 2015, 7, 4582-4599.	3.2	0
218	Economic Analysis of Lagrangian and Genetic Algorithm for the Optimal Capacity Planning of Photovoltaic Generation. Mathematical Problems in Engineering, 2015, 2015, 1-7.	1.1	2
219	Multiobjective gear shifting optimization considering a known driving cycle. Acta Scientiarum - Technology, 2015, 37, 361.	0.4	2

#	ARTICLE	IF	CITATIONS
220	Low-cost platform for the evaluation of single phase electromagnetic phenomena of power quality according to the IEEE 1159 standard. DYNA (Colombia), 2015, 82, 119-129.	0.4	3
221	Olive Cake Improvement for Bioenergy: the Drying Kinetics. International Journal of Green Energy, 2015, 12, 559-569.	3.8	23
222	An ambient intelligence system for water release scheduling in cascade hydropower systems. Journal of Ambient Intelligence and Humanized Computing, 2015, 6, 47-55.	4.9	3
223	Strategic planning design of microalgae biomass-to-biodiesel supply chain network: Multi-period deterministic model. Applied Energy, 2015, 154, 528-542.	10.1	81
224	Modeling and optimization of batteryless hybrid PV (photovoltaic)/Diesel systems for off-grid applications. Energy, 2015, 86, 152-163.	8.8	80
225	A modelling approach for a cost-based evaluation of the energy produced by a marine energy farm. International Journal of Marine Energy, 2015, 9, 1-19.	1.8	12
227	Evolutionary optimization approaches for direct coupling photovoltaic-electrolyzer systems., 2015,,.		4
228	Interactive energy demand, production and usage optimization in manufacturing. , 2015, , .		0
229	A Review of Hybrid Solar PV and Wind Energy System. Smart Science, 2015, 3, 127-138.	3.2	131
230	A Network Model to Optimize Upstream and Midstream Biomass-to-Bioenergy Supply Chain Costs. , 2015, , .		2
231	Using Speed Bump for Power Generation –Experimental Study. Energy Procedia, 2015, 75, 867-872.	1.8	36
232	Energy efficiency index as an indicator for measuring building energy performance: A review. Renewable and Sustainable Energy Reviews, 2015, 44, 1-11.	16.4	170
233	A comparison of distributed MPC schemes on a hydroâ€power plant benchmark. Optimal Control Applications and Methods, 2015, 36, 306-332.	2.1	29
234	Optimal allocation of energy sources for sustainable development in South Korea: Focus on the electric power generation industry. Energy Policy, 2015, 78, 78-90.	8.8	37
235	Optimization in microgrids with hybrid energy systems – A review. Renewable and Sustainable Energy Reviews, 2015, 45, 431-446.	16.4	501
236	Optimal displacement of photovoltaic array's rows using a novel shading model. Applied Energy, 2015, 144, 1-9.	10.1	60
237	A hybrid fuzzy satisfying optimization model for sustainable gas resources allocation. Journal of Cleaner Production, 2015, 107, 353-365.	9.3	11
238	Solar fuels vis-Ã-vis electricity generation from sunlight: The current state-of-the-art (a review). Renewable and Sustainable Energy Reviews, 2015, 44, 904-932.	16.4	54

#	Article	IF	CITATIONS
239	A new perspective for sizing of distributed generation and energy storage for smart households under demand response. Applied Energy, 2015, 143, 26-37.	10.1	142
240	Review of performance optimization techniques applied to wind turbines. Applied Energy, 2015, 142, 361-388.	10.1	270
241	Numerical study for the use of different nozzle shapes in microscale channels for producing clean energy. International Journal of Energy and Environmental Engineering, 2015, 6, 137-146.	2.5	14
242	A generic mathematical model to optimise strategic and tactical decisions in biomass-based supply chains (OPTIMASS). European Journal of Operational Research, 2015, 245, 247-264.	5.7	93
243	Including management and security of supply constraints for designing stand-alone electrification systems in developing countries. Renewable Energy, 2015, 80, 359-369.	8.9	11
244	Alternative energy scenarios for Bozcaada island, Turkey. Renewable and Sustainable Energy Reviews, 2015, 45, 468-480.	16.4	43
245	Optimal sizing of a hybrid grid-connected photovoltaic and wind power system. Applied Energy, 2015, 154, 752-762.	10.1	161
246	Optimisation of electric distribution systems: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 1088-1100.	16.4	7 5
247	The evaluation of solar farm locations applying Geographic Information System and Multi-Criteria Decision-Making methods: Case study in southern Morocco. Renewable and Sustainable Energy Reviews, 2015, 51, 1354-1362.	16.4	212
248	Application of a novel calcium looping process for production of heat and carbon dioxide enrichment of greenhouses. Energy Conversion and Management, 2015, 103, 129-138.	9.2	10
249	Performance of monocrystalline and polycrystalline solar panels in a water pumping system in Brazil. Renewable and Sustainable Energy Reviews, 2015, 51, 1610-1616.	16.4	40
250	A hierarchical methodology for the integral net energy design of small-scale hybrid renewable energy systems. Renewable and Sustainable Energy Reviews, 2015, 52, 100-110.	16.4	23
251	Computational scheduling methods for integrating plug-in electric vehicles with power systems: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 396-416.	16.4	182
252	Decision hierarchy, competitive priorities and indicators in large-scale †herbaceous biomass to energy' supply chains. Biomass and Bioenergy, 2015, 80, 321-329.	5.7	23
253	A robust real-time online comparative monitoring of an azimuthal-altitude dual axis GST 300 and a $45 \hat{A}^\circ$ fixed solar photovoltaic energy tracking systems. , 2015, , .		1
254	Design optimization and optimal control of grid-connected and standalone nearly/net zero energy buildings. Applied Energy, 2015, 155, 463-477.	10.1	186
255	Parametric analysis of air–water heat recovery concept applied to HVAC systems: Effect of mass flow rates. Case Studies in Thermal Engineering, 2015, 6, 61-68.	5.7	45
256	Hierarchical methodology to optimize the design of stand-alone electrification systems for rural communities considering technical and social criteria. Renewable and Sustainable Energy Reviews, 2015, 51, 182-196.	16.4	31

#	Article	IF	CITATIONS
257	Smart Households and Home Energy Management Systems with Innovative Sizing of Distributed Generation and Storage for Customers. , 2015, , .		11
258	Investors' Perspectives on Barriers to the Deployment of Renewable Energy Sources in Chile. Energies, 2015, 8, 3794-3814.	3.1	73
259	Small hydro power in India: Current status and future perspectives. Renewable and Sustainable Energy Reviews, 2015, 51, 101-115.	16.4	49
260	Wind-diesel hybrid power system integration in the south Algeria. Frontiers in Energy, 2015, 9, 259-271.	2.3	5
261	Research on a Small Signal Stability Region Boundary Model of the Interconnected Power System with Large-Scale Wind Power. Energies, 2015, 8, 2312-2336.	3.1	7
262	Interfacing renewable energy sources for maximum power transferâ€"Part II: Dynamics. Renewable and Sustainable Energy Reviews, 2015, 51, 1771-1783.	16.4	17
263	Progress of solar photovoltaic in ASEAN countries: A review. Renewable and Sustainable Energy Reviews, 2015, 48, 399-412.	16.4	86
264	Energy management and optimization in microgrid system based onÂgreen energy. Energy, 2015, 84, 139-151.	8.8	97
265	Model-based integration of control and operations: Overview, challenges, advances, and opportunities. Computers and Chemical Engineering, 2015, 83, 2-20.	3.8	83
266	A review on optimization algorithms and application to wind energy integration to grid. Renewable and Sustainable Energy Reviews, 2015, 48, 214-227.	16.4	82
267	Optimisation studies on tri-generation: a review. International Journal of Energy Research, 2015, 39, 1311-1334.	4.5	29
268	Wave tank experiments on the power capture of a multi-axis wave energy converter. Journal of Marine Science and Technology, 2015, 20, 520-529.	2.9	22
269	Computational optimization techniques applied to microgrids planning: A review. Renewable and Sustainable Energy Reviews, 2015, 48, 413-424.	16.4	288
270	Novel hydrogen production and power generation system using metal hydride. International Journal of Hydrogen Energy, 2015, 40, 6197-6206.	7.1	25
271	Efficient Tool to Characterize Photovoltaic Generating Systems Using Mine Blast Algorithm. Electric Power Components and Systems, 2015, 43, 890-901.	1.8	49
272	Numerical simulation for structural parameters of flat-plate solar collector. Solar Energy, 2015, 117, 192-202.	6.1	63
273	Sustainable assessment in energy planning and management in Indian perspective. Renewable and Sustainable Energy Reviews, 2015, 47, 58-73.	16.4	88
274	Scrutiny of multifarious particle swarm optimization for finding the optimal size of a PV/wind/battery hybrid system. Renewable Energy, 2015, 80, 552-563.	8.9	159

#	Article	IF	CITATIONS
275	Geometric optimization on optical performance of parabolic trough solar collector systems using particle swarm optimization algorithm. Applied Energy, 2015, 148, 282-293.	10.1	106
276	A Process Integration Approach to the Assessment of CO ₂ Fixation through Dry Reforming. ACS Sustainable Chemistry and Engineering, 2015, 3, 625-636.	6.7	58
277	A genetic optimization of a hybrid organic Rankine plant for solar and low-grade energy sources. Energy, 2015, 91, 807-815.	8.8	28
278	Energy security, policy and technology in South East Europe: Presenting and applying an energy security index to Croatia. Energy, 2015, 90, 494-507.	8.8	37
279	Understanding and predicting the impact of location and load on microgrid design. Energy, 2015, 90, 1005-1023.	8.8	38
280	Parametric Analysis of Heat Recovery from Exhaust Gases of Generators. Energy Procedia, 2015, 75, 3295-3300.	1.8	34
281	Estimation of Weibull parameters from wind measurement data by comparison of statistical methods, , 2015, , .		7
282	Combined analytical and numerical approach to determine the four parameters of the photovoltaic cells models. , $2015, \ldots$		16
283	A study of single multiplicative neuron model with nonlinear filters for hourly wind speed prediction. Energy, 2015, 88, 194-201.	8.8	15
284	Controlling stored energy in a concentrating solar thermal power plant to maximise revenue. IET Renewable Power Generation, 2015, 9, 379-388.	3.1	24
285	Stochastic optimization of hybrid renewable energy systems using sampling average method. Renewable and Sustainable Energy Reviews, 2015, 52, 1668-1679.	16.4	69
286	Distributed energy resources and environmental optimization using a memetic algorithm., 2015,,.		0
287	Multiobjective switching devices placement considering environmental constrains in distribution networks with distributed energy resources. , 2015, , .		2
288	Sustainability in manufacturing operations scheduling: A state of the art review. Journal of Manufacturing Systems, 2015, 37, 126-140.	13.9	199
289	Modeling and optimization of a network of energy hubs to improve economic and emission considerations. Energy, 2015, 93, 2546-2558.	8.8	143
290	Lithium–Air Batteries: Performance Interplays with Instability Factors. ChemElectroChem, 2015, 2, 312-323.	3.4	30
291	Novel crossflow membrane cell with asymmetric channels: Design and pressure-retarded osmosis performance test. Journal of Membrane Science, 2015, 476, 76-86.	8.2	24
292	Sizing of off-grid renewable energy systems for drip irrigation in Mediterranean crops. Renewable Energy, 2015, 76, 566-574.	8.9	82

#	Article	IF	CITATIONS
293	Experimental study of geometrical and climate effects on the performance of a small solar chimney. Renewable and Sustainable Energy Reviews, 2015, 43, 425-431.	16.4	69
294	Operation, performance and economic analysis of low head micro-hydropower turbines for rural and remote areas: A review. Renewable and Sustainable Energy Reviews, 2015, 43, 40-50.	16.4	203
295	Solar energy resource assessment in Mexican states along the Gulf of Mexico. Renewable and Sustainable Energy Reviews, 2015, 43, 216-238.	16.4	38
296	Evaluating the Benefits of Optimal Allocation of Wind Turbines for Distribution Network Operators. IEEE Systems Journal, 2015, 9, 629-638.	4.6	28
297	Optimal Design Methods for Hybrid Renewable Energy Systems. International Journal of Green Energy, 2015, 12, 148-159.	3.8	29
298	Optimum generation dispatching of distributed resources in smart grids. International Transactions on Electrical Energy Systems, 2015, 25, 1297-1318.	1.9	13
299	Methods and tools for community energy planning: A review. Renewable and Sustainable Energy Reviews, 2015, 42, 1335-1348.	16.4	141
300	Energy efficiency evaluation of hot-wire laser welding based on process characteristic and power consumption. Journal of Cleaner Production, 2015, 87, 255-262.	9.3	52
301	Renewable energy in Saudi Arabia: current status and future potentials. Environment, Development and Sustainability, 2015, 17, 859-886.	5.0	76
302	Wind power forecast using wavelet neural network trained by improved Clonal selection algorithm. Energy Conversion and Management, 2015, 89, 588-598.	9.2	196
303	Integration of the environmental management aspect in the optimization of the design and planning of energy systems. Journal of Cleaner Production, 2015, 106, 576-593.	9.3	39
304	Assessment of dry residual biomass potential for use as alternative energy source in the party of General Pueyrredųn, Argentina. Renewable and Sustainable Energy Reviews, 2015, 41, 568-583.	16.4	75
305	Development of flexible designs for PVFC hybrid power systems. Renewable Energy, 2015, 74, 176-186.	8.9	7
306	BBO-based small autonomous hybrid power system optimization incorporating wind speed and solar radiation forecasting. Renewable and Sustainable Energy Reviews, 2015, 41, 1366-1375.	16.4	82
307	Orderly grid connection of renewable energy generation in China: Management mode, existing problems and solutions. Renewable and Sustainable Energy Reviews, 2015, 41, 14-28.	16.4	37
308	Simplified Method of Optimal Sizing of a Renewable Energy Hybrid System for Schools. Sustainability, 2016, 8, 1134.	3.2	8
309	Component-Based Modelling for Scalable Smart City Systems Interoperability: A Case Study on Integrating Energy Demand Response Systems. Sensors, 2016, 16, 1810.	3.8	19
310	An integrated analysis for sustainable supply of remote winter tourist centers a future concept case study. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3821-3837.	1.4	3

#	Article	IF	CITATIONS
311	Development of algorithms forÂbuilding retrofit., 2016,, 349-373.		1
312	A Novel Method for Fast Configuration of Energy Storage Capacity in Stand-Alone and Grid-Connected Wind Energy Systems. Sustainability, 2016, 8, 1336.	3.2	1
313	Conversion of an existing electrostatic precipitator casing to Pulse Jet Fabric filter in fossil power plants. DYNA (Colombia), 2016, 83, 189-197.	0.4	2
314	Implementing a Novel Hybrid Maximum Power Point Tracking Technique in DSP via Simulink/MATLAB under Partially Shaded Conditions. Energies, 2016, 9, 85.	3.1	10
315	A Design Alternative to Improve the Interconnection Capability of New Distributed-Generation Installations into Existing Griddle. Energies, 2016, 9, 416.	3.1	1
316	A Procedure to Perform Multi-Objective Optimization for Sustainable Design of Buildings. Energies, 2016, 9, 915.	3.1	12
317	Geospatial Analysis of the Building Heat Demand and Distribution Losses in a District Heating Network. ISPRS International Journal of Geo-Information, 2016, 5, 219.	2.9	8
318	Development of Chemical Process Design and Control for Sustainability. Processes, 2016, 4, 23.	2.8	33
319	Solar greenhouse dryer system for wood chips improvement as biofuel. Journal of Cleaner Production, 2016, 135, 1233-1241.	9.3	41
320	Research on configuration strategy for regional energy storage system based on three typical filtering methods. IET Generation, Transmission and Distribution, 2016, 10, 2360-2366.	2.5	11
321	A Study on Wave-Induced Artificial Upwelling. Marine Technology Society Journal, 2016, 50, 48-55.	0.4	2
322	Optimization of blade setting angles of a counter-rotating type horizontal-axis tidal turbine using response surface methodology and experimental validation. International Journal of Energy Research, 2016, 40, 610-617.	4.5	23
323	On the Improvement of Convergence Performance for Integrated Design of Wind Turbine Blade Using a Vector Dominating Multi-objective Evolution Algorithm. Journal of Physics: Conference Series, 2016, 753, 062007.	0.4	0
324	Renewable energy systems for generating electric power: A review., 2016,,.		32
325	Improving Energy Efficiency for the Vehicle Assembly Industry: A Discrete Event Simulation Approach. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012069.	0.6	6
326	Optimal STATCOM controller for enhancing wind farm power system performance under fault conditions. , $2016, , .$		5
327	Dynamic engineering-economic models for real-time energy market. , 2016, , .		0
328	Urban household cooking energy choice: an example of Bauchi metropolis, Nigeria. Energy, Sustainability and Society, 2016, 6, .	3.8	36

#	Article	IF	CITATIONS
329	Review of optimization of power dispatch in renewable energy system. , 2016, , .		24
330	Optimal sizing of a stand-alone hybrid photovoltaic/wind system using new grey wolf optimizer considering reliability. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	61
331	Two-stage method for optimal operation of a distributed energy system. , 2016, , .		0
332	Offline Guarantee and Online Management of Power Demand and Supply in Cyber-Physical Systems. , 2016, , .		5
333	FUSE-IT: Enhancing critical site supervision with cross-domain key performance indicators. , 2016, , .		1
334	First-principles effective Hamiltonian simulation of ABO3-type perovskite ferroelectrics for energy storage application. Journal of Applied Physics, 2016, 120, 074106.	2.5	11
335	Multi-objective optimization for GPU3 Stirling engine by combining multi-objective algorithms. Renewable Energy, 2016, 94, 114-125.	8.9	43
336	Contributions to the Design of a Water Pumped Storage System in an Isolated Power System with High Penetration of Wind Energy. IFIP Advances in Information and Communication Technology, 2016, , 378-386.	0.7	0
337	Energy Planning Decision-Making Under Uncertainty Based on the Evidential Reasoning Approach. Communications in Computer and Information Science, 2016, , 236-249.	0.5	1
338	Comparative life cycle assessment of beverages packages in Palestine. Journal of Cleaner Production, 2016, 131, 28-42.	9.3	46
339	Practical Strategies for Storage Operation in Energy Systems: Design and Evaluation. IEEE Transactions on Sustainable Energy, 2016, 7, 1602-1610.	8.8	25
340	Optimal Wells turbine speeds at different wave conditions. International Journal of Marine Energy, 2016, 16, 133-149.	1.8	31
341	Possibilities for CO2-neutral manufacturing with attractive energy costs. Journal of Cleaner Production, 2016, 138, 287-297.	9.3	17
342	A review on the recent progress made on solar photovoltaic in selected countries of sub-Saharan Africa. Renewable and Sustainable Energy Reviews, 2016, 62, 441-452.	16.4	44
343	Durability studies of solar reflectors: A review. Renewable and Sustainable Energy Reviews, 2016, 62, 453-467.	16.4	77
345	Economic optimization of operations for hybrid energy systems under variable markets. Applied Energy, 2016, 177, 11-24.	10.1	57
346	Electrochemical CO2 reduction: Electrocatalyst, reaction mechanism, and process engineering. Nano Energy, 2016, 29, 439-456.	16.0	623
347	Computational intelligence techniques for HVAC systems: A review. Building Simulation, 2016, 9, 359-398.	5.6	167

#	Article	IF	CITATIONS
348	A review of renewable energy sources, sustainability issues and climate change mitigation. Cogent Engineering, 2016, 3, 1167990.	2.2	1,596
349	Improving the stability of solar cells using metal–organic frameworks. Journal of Materials Chemistry A, 2016, 4, 7930-7935.	10.3	18
350	Decision making under uncertainty using a qualitative TOPSIS method for selecting sustainable energy alternatives. International Journal of Environmental Science and Technology, 2016, 13, 1419-1432.	3.5	72
351	Technical innovation vs. sustainability – A case study from the Taiwanese automobile industry. Transportation Research, Part D: Transport and Environment, 2016, 48, 20-30.	6.8	6
352	Optimal design and operation of Archimedes screw turbines using Bayesian optimization. Applied Energy, 2016, 183, 1404-1417.	10.1	27
353	Performance optimization of a channel flow problem using shape functions. International Journal of Heat and Mass Transfer, 2016, 101, 303-312.	4.8	1
354	Optimizing mixture properties of biodiesel production using genetic algorithm-based evolutionary support vector machine. International Journal of Green Energy, 2016, 13, 1599-1607.	3.8	23
355	Smart energy systems for smart city districts: case study Reininghaus District. Energy, Sustainability and Society, 2016, 6, .	3.8	29
356	Critical impact of permeate-to-feed ratio and feed flow rate fraction on performance of pressure-retarded osmosis process. Desalination, 2016, 399, 128-137.	8.2	5
357	Modeling flexibility and optimal use of existing power plants with large-scale variable renewable power schemes. Energy, 2016, 112, 364-375.	8.8	62
358	Evaluation of different initial solution algorithms to be used in the heuristics optimization to solve the energy resource scheduling in smart grids. Applied Soft Computing Journal, 2016, 48, 491-506.	7.2	22
359	Alcohols and alcohols mixtures as liquid biofuels: A review of dielectric properties. Renewable and Sustainable Energy Reviews, 2016, 66, 556-571.	16.4	36
360	Fuel properties of avocado stone. Fuel, 2016, 186, 358-364.	6.4	58
361	Assessment on the research trend of low-carbon energy technology investment: A bibliometric analysis. Applied Energy, 2016, 184, 960-970.	10.1	77
362	Multivariate electricity consumption prediction with Extreme Learning Machine. , 2016, , .		10
363	An integrated grey based multi-criteria decision making approach for the evaluation of renewable energy sources. Energy, 2016, 115, 1246-1258.	8.8	159
364	Optimized operation combining costs, efficiency and lifetime of a hybrid renewable energy system with energy storage by battery and hydrogen in grid-connected applications. International Journal of Hydrogen Energy, 2016, 41, 23132-23144.	7.1	64
365	Impact of conservatory as a passive solar design of UK dwellings. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2016, 169, 198-213.	0.7	10

#	Article	IF	CITATIONS
366	Solar-hydrogen hybrid system integrated to a sustainable house in Mexico. International Journal of Hydrogen Energy, 2016, 41, 19539-19545.	7.1	40
367	Multi-objective Optimization for Design and Operation of Distributed Energy Systems through the Multi-energy Hub Network Approach. Industrial & Engineering Chemistry Research, 2016, 55, 8950-8966.	3.7	43
368	A novel tool for the evaluation and assessment of demand response activities in the industrial sector. Energy, 2016, 113, 1136-1146.	8.8	30
369	Multi-objective methodology to find the optimal forward current to supply light emitting diode (LED) lightings. , 2016, , .		2
370	Decision guidance framework to support operations and analysis of a hybrid renewable energy system. Journal of Management Analytics, 2016, 3, 285-304.	2.5	11
371	Combined heat and power design based on environmental and cost criteria. Energy, 2016, 116, 922-932.	8.8	12
372	Short review on heat recovery from exhaust gas. AIP Conference Proceedings, 2016, , .	0.4	34
373	Optimization of a wind powered desalination and pumped hydro storage system. Applied Energy, 2016, 177, 487-499.	10.1	95
374	Review and analysis of solar thermal facades. Solar Energy, 2016, 135, 408-422.	6.1	45
375	Experimental investigation of energy and exergy efficiency of a pulsating heat pipe for chimney heat recovery. Sustainable Energy Technologies and Assessments, 2016, 16, 11-17.	2.7	23
376	A physics-based integer-linear battery modeling paradigm. Applied Energy, 2016, 176, 245-257.	10.1	5
377	Eco-design and evaluation for production of 7-aminocephalosporanic acid from carbohydrate wastes discharged after microalgae-based biodiesel production. Journal of Cleaner Production, 2016, 133, 511-517.	9.3	12
378	Multiâ€scale systems engineering for energy and the environment: Challenges and opportunities. AICHE Journal, 2016, 62, 602-623.	3.6	78
379	Evaluating the impact of uncertainty and variability on the value chain optimization of a forest biomass power plant using Monte Carlo Simulation. International Journal of Green Energy, 2016, 13, 631-641.	3.8	21
380	A heuristic approach for optimal sizing of ESS coupled with intermittent renewable sources systems. Renewable Energy, 2016, 91, 155-165.	8.9	18
381	A review on planning, configurations, modeling and optimization techniques of hybrid renewable energy systems for off grid applications. Renewable and Sustainable Energy Reviews, 2016, 58, 376-396.	16.4	303
382	A Decision Support Tool for Optimal Design of Integrated Biorefineries under Strategic and Operational Level Uncertainties. Industrial & Engineering Chemistry Research, 2016, 55, 1667-1676.	3.7	22
383	Optimal scheduling of energy storage for renewable energy distributed energy generation system. Renewable and Sustainable Energy Reviews, 2016, 58, 1100-1107.	16.4	81

#	Article	IF	CITATIONS
384	Bioenergy from anaerobic digestion in Pakistan: Potential, development and prospects. Renewable and Sustainable Energy Reviews, 2016, 59, 264-275.	16.4	64
385	Highly efficient antireflective and self-cleaning coatings that incorporate carbon nanotubes (CNTs) into solar cells: A review. Renewable and Sustainable Energy Reviews, 2016, 59, 620-635.	16.4	91
386	Biofuels: A sustainable choice for the United States' energy future?. Technological Forecasting and Social Change, 2016, 104, 147-161.	11.6	14
387	Decision making in renewable energy investments: A review. Renewable and Sustainable Energy Reviews, 2016, 55, 885-898.	16.4	303
388	Decision model for sustainable electricity procurement using nationwide demand response., 2016,,.		4
389	A comprehensive review of Uniform Solar Illumination at Low Concentration Photovoltaic (LCPV) Systems. Renewable and Sustainable Energy Reviews, 2016, 60, 1430-1441.	16.4	52
390	Is the Lithuanian economy approaching the goals of sustainable energy and climate change mitigation? Evidence from DEA-based environmental performance index. Journal of Cleaner Production, 2016, 116, 23-31.	9.3	65
391	Gross vs. net energy: Towards a rational framework for assessing the practical viability of pressure retarded osmosis. Journal of Membrane Science, 2016, 503, 132-147.	8.2	31
392	Calculation of NaCl, KCl and LiCl Salts Activity Coefficients in Polyethylene Glycol (PEG4000)–Water System Using Modified PHSC Equation of State, Extended Debye–Hýckel Model and Pitzer Model. Journal of Non-Equilibrium Thermodynamics, 2016, 41, .	4.2	0
393	Energy benchmarking for shopping centers in Gulf Coast region. Energy Policy, 2016, 91, 247-255.	8.8	34
394	Energy-related performance measures employed in sustainable supply chains: A bibliometric analysis. Sustainable Production and Consumption, 2016, 7, 1-15.	11.0	37
395	MILP-based heuristics for the design of rural community electrification projects. Computers and Operations Research, 2016, 71, 90-99.	4.0	14
396	Higher-order statistics for power systems: Effects of the sampling frequency on ergodicity. Applied Mathematical Modelling, 2016, 40, 6924-6933.	4.2	3
397	Sustainable Operations. European Journal of Operational Research, 2016, 253, 243-264.	5.7	99
398	Torrefaction of cultivation residue of Auricularia auricula-judae to obtain biochar with enhanced fuel properties. Bioresource Technology, 2016, 206, 211-216.	9.6	44
399	Vapor phase hydrogenation of furfural over nickel mixed metal oxide catalysts derived from layered double hydroxides. Applied Catalysis A: General, 2016, 517, 187-195.	4.3	73
400	Electric vehicle fleet management in smart grids: A review of services, optimization and control aspects. Renewable and Sustainable Energy Reviews, 2016, 56, 1207-1226.	16.4	324
401	Analysis of CO2 emissions reduction in the Malaysian transportation sector: An optimisation approach. Energy Policy, 2016, 89, 171-183.	8.8	64

#	Article	IF	CITATIONS
402	Gradient-free methods applied to optimisation of advanced ultra-supercritical power plant. Applied Thermal Engineering, 2016, 96, 200-208.	6.0	30
403	A novel integrated simulation approach couples MCRT and Gebhart methods to simulate solar radiation transfer in a solar power tower system with a cavity receiver. Renewable Energy, 2016, 89, 93-107.	8.9	74
404	Optimizing the distribution of Italian building energy retrofit incentives with Linear Programming. Energy and Buildings, 2016, 112, 21-27.	6.7	39
405	From controllable loads to generalized demand-side resources: A review on developments of demand-side resources. Renewable and Sustainable Energy Reviews, 2016, 53, 936-944.	16.4	68
406	Power quality techniques research worldwide: A review. Renewable and Sustainable Energy Reviews, 2016, 54, 846-856.	16.4	60
407	Estimation of the largest eigenvalue in Chebyshev preconditioner for parallel conjugate gradient methodâ€based power flow computation. IET Generation, Transmission and Distribution, 2016, 10, 123-130.	2.5	3
408	A review of optimum sizing of hybrid PV–Wind renewable energy systems in oman. Renewable and Sustainable Energy Reviews, 2016, 53, 185-193.	16.4	158
409	Adaptive Neuro-Fuzzy Inference System modelling for performance prediction of solar thermal energy system. Renewable Energy, 2016, 86, 302-315.	8.9	65
410	Models for optimization and performance evaluation of biomass supply chains: An Operations Research perspective. Renewable Energy, 2016, 87, 977-989.	8.9	149
411	An overview of energy balance compared to sustainable energy in United Arab Emirates. Renewable and Sustainable Energy Reviews, 2016, 55, 1195-1209.	16.4	55
412	Optimal design and operation of a photovoltaic–electrolyser system using particle swarm optimisation. International Journal of Sustainable Energy, 2016, 35, 566-582.	2.4	25
413	Heat Transfer Analysis of a Flat-Plate Solar Air Collector by Using an Artificial Neural Network. Journal of Infrastructure Systems, 2016, 22, .	1.8	11
414	An extended goal programming model for site selection in the offshore wind farm sector. Annals of Operations Research, 2016, 245, 121-135.	4.1	21
415	Using neural networks coupled with particle swarm optimization technique for mathematical modeling of air gap membrane distillation (AGMD) systems for desalination process. Neural Computing and Applications, 2017, 28, 2099-2104.	5.6	30
416	A novel framework for analyzing the green value of food supply chain based on life cycle assessment. Clean Technologies and Environmental Policy, 2017, 19, 93-103.	4.1	10
417	Assessing the potential role of concentrated solar power (CSP) for the northeast power system of Brazil using a detailed power system model. Energy, 2017, 121, 695-715.	8.8	25
418	Modeling and optimization of a solar parabolic trough concentrator system using inverse artificial neural network. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	22
419	Using system dynamics modeling to evaluate the feasibility of ethanol supply chain in Brazil: The role of sugarcane yield, gasoline prices and sales tax rates. Biomass and Bioenergy, 2017, 97, 186-211.	5.7	38

#	Article	IF	CITATIONS
420	Small scale hydro-power as a source of renewable energy in Malaysia: A review. Renewable and Sustainable Energy Reviews, 2017, 72, 228-239.	16.4	102
421	Evaluation and comparison of economic policies to increase distributed generation capacity in the Iranian household consumption sector using photovoltaic systems and RETScreen software. Renewable Energy, 2017, 107, 215-222.	8.9	51
422	p-Cu ₂ S/n-Zn _x Cd _{1â^²x} S nanocrystals dispersed in a 3D porous graphene nanostructure: an excellent photocatalyst for hydrogen generation through sunlight driven water splitting. Catalysis Science and Technology, 2017, 7, 1305-1314.	4.1	23
423	Energy model – A tool for preventing energy dysfunction. Renewable and Sustainable Energy Reviews, 2017, 73, 95-114.	16.4	30
424	Indoor lighting techniques: An overview of evolution and new trends for energy saving. Energy and Buildings, 2017, 140, 50-60.	6.7	115
425	Risk assessment and biâ€level optimization dispatch of virtual power plants considering renewable energy uncertainty. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 510-518.	1.4	7
426	An Integrated Characterization Model and Multiobjective Optimization for the Design of an EV Charger's Circular Wireless Power Transfer Pads. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	29
427	Optimization of well-doublet placement in geothermal reservoirs using numerical simulation and economic analysis. Environmental Earth Sciences, 2017, 76, 1.	2.7	41
428	Short-term photovoltaic power forecasting using Artificial Neural Networks and an Analog Ensemble. Renewable Energy, 2017, 108, 274-286.	8.9	198
429	Evaluation of approaches used for optimization of stand-alone hybrid renewable energy systems. Renewable and Sustainable Energy Reviews, 2017, 73, 840-853.	16.4	185
430	Rooftop analysis for solar flat plate collector assessment to achieving sustainability energy. Journal of Cleaner Production, 2017, 148, 545-554.	9.3	31
431	Recent Advances in Atomic Metal Doping of Carbonâ€based Nanomaterials for Energy Conversion. Small, 2017, 13, 1700191.	10.0	290
432	Towards the next generation of smart grids: Semantic and holonic multi-agent management of distributed energy resources. Renewable and Sustainable Energy Reviews, 2017, 77, 193-214.	16.4	201
433	Towards forest sustainability in Mediterranean countries using biomass as fuel for heating. Journal of Cleaner Production, 2017, 156, 624-634.	9.3	40
434	3D Porous Graphene Nanostructure from a Simple, Fast, Scalable Process for High Performance Flexible Gel-Type Supercapacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 4457-4467.	6.7	36
435	Renewable energy: Present research and future scope of Artificial Intelligence. Renewable and Sustainable Energy Reviews, 2017, 77, 297-317.	16.4	216
436	Electrically and thermally conductive thin elastic polymer foils containing SiC nanofibers. Composites Science and Technology, 2017, 146, 20-25.	7.8	13
437	Fabrication of Graphene/TiO ₂ /Paraffin Composite Phase Change Materials for Enhancement of Solar Energy Efficiency in Photocatalysis and Latent Heat Storage. ACS Sustainable Chemistry and Engineering, 2017, 5, 4906-4915.	6.7	115

#	Article	IF	CITATIONS
438	Performance analysis of hybrid PV/diesel/battery system using HOMER: A case study Sabah, Malaysia. Energy Conversion and Management, 2017, 144, 322-339.	9.2	274
439	Biomass resources and potential of anaerobic digestion in Indian scenario. Renewable and Sustainable Energy Reviews, 2017, 77, 718-730.	16.4	40
440	Selection of Best Renewable Energy Source by Using VIKOR Method. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	2.6	38
441	Optimal placement and sizing of distribution static compensator (D-STATCOM) in electric distribution networks: A review. Renewable and Sustainable Energy Reviews, 2017, 77, 688-694.	16.4	108
442	A comprehensive study of economic unit commitment of power systems integrating various renewable generations and plug-in electric vehicles. Energy Conversion and Management, 2017, 132, 460-481.	9.2	93
443	A multi criteria decision making framework for sustainability assessment of bioenergy production technologies with hesitant fuzzy linguistic term sets: The case of Iran. Renewable and Sustainable Energy Reviews, 2017, 77, 1130-1145.	16.4	88
444	Benchmarking island power systems: Results, challenges, and solutions for long term sustainability. Renewable and Sustainable Energy Reviews, 2017, 80, 1269-1291.	16.4	37
445	The global solar radiation estimation and analysis of solar energy: Case study for Osmaniye, Turkey. International Journal of Green Energy, 2017, 14, 765-773.	3.8	20
446	Design of a solar dish Stirling cogeneration system: Application of a multi-objective optimization approach. Applied Thermal Engineering, 2017, 123, 646-657.	6.0	31
447	Reinforcement learning based PID controller design for LFC in a microgrid. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1287-1297.	0.9	20
448	Energy storage planning in electric power distribution networks – A state-of-the-art review. Renewable and Sustainable Energy Reviews, 2017, 79, 1108-1121.	16.4	167
449	Economic Analysis of Decentralized, Electrical- and Thermal Renewable Energy Supply for Small and Medium-Sized Enterprises. Procedia CIRP, 2017, 61, 422-427.	1.9	8
450	Sustainable energy system planning for the management of MGs: a case study in New South Wales, Australia. IET Renewable Power Generation, 2017, 11, 228-238.	3.1	8
451	Challenges and trends of energy storage expansion planning for flexibility provision in low-carbon power systems – a review. Renewable and Sustainable Energy Reviews, 2017, 80, 603-619.	16.4	109
452	Optimization of thermal performance of the parabolic trough solar collector systems based on GA-BP neural network model. International Journal of Green Energy, 2017, 14, 819-830.	3.8	27
453	Bi-level multi-objective fuzzy design optimization of energy supply systems aided by problem-specific heuristics. Energy, 2017, 137, 1231-1251.	8.8	30
454	The research on multi-agent system for microgrid control and optimization. Renewable and Sustainable Energy Reviews, 2017, 80, 1399-1411.	16.4	80
455	Optimisation of stand-alone hybrid energy systems supplemented by combustion-based prime movers. Applied Energy, 2017, 196, 18-33.	10.1	72

#	Article	IF	CITATIONS
456	Influence of the metal center of metalloprotoporphyrins on the electrocatalytic CO2 reduction to formic acid. Catalysis Today, 2017, 288, 37-47.	4.4	65
457	Glycidol hydrogenolysis on a cheap mesoporous acid saponite supported Ni catalyst as alternative approach to 1,3-propanediol synthesis. Applied Catalysis A: General, 2017, 538, 91-98.	4.3	14
458	Dynamic Decision Making in Energy Systems with Storage and Renewable Energy Sources. Trends in Mathematics, 2017, , 87-101.	0.1	3
459	Load management as a smart grid concept for sizing and designing of hybrid renewable energy systems. Engineering Optimization, 2017, 49, 1813-1828.	2.6	51
460	CFD and experimental investigation of flat plate solar water heating system under steady state condition. Renewable Energy, 2017, 106, 24-36.	8.9	79
461	Optimal hybrid PV/wind energy system sizing: Application of cuckoo search algorithm for Algerian dairy farms. Renewable and Sustainable Energy Reviews, 2017, 70, 1352-1365.	16.4	151
462	Application of response surface methodology in optimization of performance and exhaust emissions of secondary butyl alcohol-gasoline blends in SI engine. Energy Conversion and Management, 2017, 133, 178-195.	9.2	77
463	Application of soft computing methods for grid connected PV system: A technological and status review. Renewable and Sustainable Energy Reviews, 2017, 75, 1493-1508.	16.4	33
465	Fast screening method to characterize lithium ion battery electrolytes by means of solid phase microextraction – gas chromatography – mass spectrometry. RSC Advances, 2017, 7, 46989-46998.	3.6	35
466	Structuring the Planning Tasks in Biomass-Based Supply Chains. Economic Complexity and Evolution, 2017, , 293-311.	0.1	1
467	An MILP formulation for the optimal management of microgrids with task interruptions. Applied Energy, 2017, 206, 1131-1146.	10.1	49
468	ZnCo2O4 nanoparticles derived from dual-metal-organic-frameworks embedded in Multiwalled Carbon Nanotubes: a favorable electrocatalyst for the water splitting. Electrochimica Acta, 2017, 257, 233-242.	5.2	59
469	A stochastic de novo assembly algorithm for viral-sized genomes obtains correct genomes and builds consensus. Information Sciences, 2017, 420, 184-199.	6.9	1
470	Towards next-generation energy planning decision-making: An expert-based framework for intelligent decision support. Renewable and Sustainable Energy Reviews, 2017, 80, 1544-1577.	16.4	30
471	Study on day-ahead optimal economic operation of active distribution networks based on Kriging model assisted particle swarm optimization with constraint handling techniques. Applied Energy, 2017, 204, 143-162.	10.1	32
472	Detection of time delays and directional interactions based on time series from complex dynamical systems. Physical Review E, 2017, 96, 012221.	2.1	35
473	Real-Time Determination of Solar Cell Parameters. Journal of Electronic Materials, 2017, 46, 6535-6543.	2.2	8
474	Thermal storage using sand saturated by thermal-conductive fluid and comparison with the use of concrete. Journal of Energy Storage, 2017, 13, 85-95.	8.1	31

#	Article	IF	CITATIONS
475	Intelligent homes' technologies to optimize the energy performance for the net zero energy home. Energy and Buildings, 2017, 153, 262-274.	6.7	84
476	Development of Thermoregulatory Enzyme Carriers Based on Microencapsulated n-Docosane Phase Change Material for Biocatalytic Enhancement of Amylases. ACS Sustainable Chemistry and Engineering, 2017, 5, 8396-8406.	6.7	36
477	State-Of-The-Art Review of Mathematical Optimisation Approaches for Synthesis of Energy Systems. Process Integration and Optimization for Sustainability, 2017, 1, 165-188.	2.6	52
478	Numerical Optimization and Noise Analysis of High-Tip-Speed Wind Turbine. Advances in Applied Mathematics and Mechanics, 2017, 9, 1461-1484.	1.2	5
479	The Theoretical Analysis of Mass and Energy Flow Through Solar Collector – Chimney System. Civil and Environmental Engineering Reports, 2017, 24, 117-131.	0.3	1
480	Hybrid optimization method and seasonal operation strategy for distributed energy system integrating CCHP, photovoltaic and ground source heat pump. Energy, 2017, 141, 1439-1455.	8.8	105
481	Time-series aggregation for synthesis problems by bounding error in the objective function. Energy, 2017, 135, 900-912.	8.8	62
482	Sustainable management of Danube renewable resources in the region of Iron Gate. Management of Environmental Quality, 2017, 28, 664-680.	4.3	7
483	Optimized Hybrid Wind-Diesel Energy System with Feasibility Analysis. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	2.6	30
484	Optimisation of aiming strategies in Solar Power Tower plants. Energy, 2017, 137, 285-291.	8.8	36
485	Real-time resource efficiency indicators for monitoring and optimization of batch-processing plants. Canadian Journal of Chemical Engineering, 2017, 95, 265-280.	1.7	8
486	Multi-criteria ranking of energy generation scenarios with Monte Carlo simulation. Applied Energy, 2017, 185, 862-871.	10.1	113
487	An overview of research and energy evolution for small hydropower in Europe. Renewable and Sustainable Energy Reviews, 2017, 75, 476-489.	16.4	87
488	Experimental analysis of fuel from fish processing industry waste in a diesel engine. Clean Technologies and Environmental Policy, 2017, 19, 1099-1108.	4.1	10
489	Power flow analysis in islanded Micro-Grids via modeling different operational modes of DGs: A review and a new approach. Renewable and Sustainable Energy Reviews, 2017, 69, 248-262.	16.4	64
490	Stakeholder-driven multi-attribute analysis for energy project selection under uncertainty. Energy, 2017, 119, 744-753.	8.8	22
491	Optimal Design of Multiplant Cogeneration Systems with Uncertain Flaring and Venting. ACS Sustainable Chemistry and Engineering, 2017, 5, 675-688.	6.7	15
492	Analysis of energy development sustainability: The example of the lithuanian district heating sector. Energy Policy, 2017, 100, 227-236.	8.8	24

#	Article	IF	CITATIONS
493	Prediction of the gas emission from porous media with the concern of energy and environment. Renewable and Sustainable Energy Reviews, 2017, 68, 1144-1156.	16.4	4
494	Optimization of a fixed exterior complex fenestration system considering visual comfort and energy performance criteria. Building and Environment, 2017, 113, 163-174.	6.9	54
495	Design of a wind farm collection network when several cable types are available. Journal of the Operational Research Society, 2017, 68, 62-73.	3.4	11
496	Effect of Processing Additives on Organic Photovoltaics: Recent Progress and Future Prospects. Advanced Energy Materials, 2017, 7, 1601496.	19.5	71
497	Metalâ€Organic Framework Cathodes Based on a Vanadium Hexacyanoferrate Prussian Blue Analogue for Highâ€Performance Aqueous Rechargeable Batteries. Advanced Energy Materials, 2017, 7, 1601491.	19.5	140
498	Operation of hydro power plants-a review. Renewable and Sustainable Energy Reviews, 2017, 69, 610-619.	16.4	129
499	Multi-objective differential evolution optimization based on uniform decomposition for wind turbine blade design. Energy, 2017, 120, 346-361.	8.8	41
500	The impact of oil price fluctuations on common renewable energies in GCC countries. Renewable and Sustainable Energy Reviews, 2017, 75, 989-1007.	16.4	136
501	Optimal design and planning of biodiesel supply chain considering non-edible feedstock. Renewable and Sustainable Energy Reviews, 2017, 75, 1089-1100.	16.4	51
502	Design and Power Quality Improvement of Photovoltaic Power System. , 2017, , .		12
503	Synthetic wind speed scenarios generation for probabilistic analysis of hybrid energy systems. Energy, 2017, 120, 507-517.	8.8	40
504	Water systems understandings: a framework for designing instruction and considering what learners know about water. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1178.	6.5	17
505	Optimal operation of micro integrated energy systems considering electrical and heat load classification and scheduling. , 2017, , .		3
506	Integration of solar energy and optimized economic dispatch using genetic algorithm: A case-study of Abu Dhabi. , 2017, , .		0
507	Weather forecasting error in solar energy forecasting. IET Renewable Power Generation, 2017, 11, 1274-1280.	3.1	45
508	Real-time energy pricing and fuels consumption models. , 2017, , .		1
509	Ontology-based generation of optimization problems for building energy management. , 2017, , .		5
510	Development of an ontology-based generic optimisation tool for the design of hybrid energy systems. International Journal of Computer Applications in Technology, 2017, 55, 232.	0.5	20

#	Article	IF	CITATIONS
511	Emergency control strategy of hybrid power system under sudden load applying., 2017,,.		2
512	A new method to evaluate the optimal penetration level of wind power. , 2017, , .		2
513	An intelligent scheme for source management. , 2017, , .		0
514	Stochastic approach for active and reactive power management in distribution networks. , 2017, , .		0
515	CEMPL: A new domain-specific language for rapid modeling of cross-energy systems. , 2017, , .		2
516	Nanofluid Types, Their Synthesis, Properties and Incorporation in Direct Solar Thermal Collectors: A Review. Nanomaterials, 2017, 7, 131.	4.1	135
517	Heuristic vs. Meta-Heuristic Optimal Energy Design for an Office Building. Sustainability, 2017, 9, 508.	3.2	2
518	A Hybrid Wind Speed Forecasting System Based on a  Decomposition and Ensemble' Strategy and Fuzzy Time Series. Energies, 2017, 10, 1422.	3.1	38
519	Selecting Tools for Renewable Energy Analysis in Developing Countries: An Expanded Review. Frontiers in Energy Research, 2017, 5, .	2.3	27
520	Bi-layer multi-objective optimal allocation and sizing of electric vehicle parking garage. , 2017, , .		5
521	Environmental impact of geothermal power plants in Aydın, Turkey. E3S Web of Conferences, 2017, 19, 02028.	0.5	3
522	A Novel Solution Methodology for the Optimization of Thermal Analysis in the Solar Parabolic Trough Collector. Indian Journal of Science and Technology, 2017, 9, .	0.7	3
523	Energy Production Analysis and Optimization of Mini-Grid in Remote Areas: The Case Study of Habaswein, Kenya. Energies, 2017, 10, 2041.	3.1	46
525	Evaluating the Potential of Variable Renewable Energy for a Balanced Isolated Grid: A Japanese Case Study. Sustainability, 2017, 9, 119.	3.2	7
526	Forecasting of Electricity Demand by Hybrid ANN-PSO Models. International Journal of Energy Optimization and Engineering, 2017, 6, 66-83.	0.6	14
527	Resources and environmental systems management under synchronic interval uncertainties. Stochastic Environmental Research and Risk Assessment, 2018, 32, 435-456.	4.0	1
528	Wind energy research in Mexico. Renewable Energy, 2018, 123, 719-729.	8.9	36
529	Modeling and Optimization of Integration of Renewable Energy Resources (RER) for Minimum Energy Cost, Minimum CO2 Emissions and Sustainable Development, in Recent Years: A Review. Materials Today: Proceedings, 2018, 5, 11-21.	1.8	45

#	Article	IF	CITATIONS
530	Enhanced cycle performance and lifetime estimation of lead-acid batteries. New Journal of Chemistry, 2018, 42, 8900-8904.	2.8	10
531	A review of EVs charging: From the perspective of energy optimization, optimization approaches, and charging techniques. Transportation Research, Part D: Transport and Environment, 2018, 62, 386-417.	6.8	125
532	Towards Longâ€Term Thermal Stability of Dyeâ€Sensitized Solar Cells Using Multiwalled Carbon Nanotubes. ChemPlusChem, 2018, 83, 682-690.	2.8	18
533	Battery energy storage system size determination in renewable energy systems: A review. Renewable and Sustainable Energy Reviews, 2018, 91, 109-125.	16.4	590
534	Holistic modelling techniques for the operational optimisation of multi-vector energy systems. Energy and Buildings, 2018, 169, 397-416.	6.7	29
535	Techno-economic optimization for two SHPPs that form a combined system. Renewable Energy, 2018, 122, 265-274.	8.9	5
536	Bilayer Multi-Objective Optimal Allocation and Sizing of Electric Vehicle Parking Garage. IEEE Transactions on Industry Applications, 2018, 54, 1992-2001.	4.9	30
537	Time series aggregation for energy system design: Modeling seasonal storage. Applied Energy, 2018, 213, 123-135.	10.1	141
538	Enhanced photon collection of high surface area carbonate-doped mesoporous TiO2 nanospheres in dye sensitized solar cells. Materials Research Bulletin, 2018, 101, 353-362.	5.2	32
539	A combined control strategy of a DFIG based on a sensorless power control through modified phase-locked loop and fuzzy logic controllers. Renewable Energy, 2018, 121, 489-501.	8.9	25
540	A techno-economic feasibility analysis of hybrid renewable energy supply options for a grid-connected large office building in southeastern part of France. Sustainable Cities and Society, 2018, 38, 492-508.	10.4	89
541	Transformation of Jatropha oil to biofuel using transition metal salts as heterogeneous catalysts. Journal of Molecular Liquids, 2018, 256, 16-21.	4.9	31
542	The role of microorganisms in achieving the sustainable development goals. Journal of Cleaner Production, 2018, 182, 139-155.	9.3	90
543	A modelling tool selection process for planning of community scale energy systems including storage and demand side management. Sustainable Cities and Society, 2018, 39, 674-688.	10.4	84
544	Performance evaluation of hybrid adaptive neuro-fuzzy inference system models for predicting monthly global solar radiation. Applied Energy, 2018, 213, 247-261.	10.1	128
545	Interval joint-probabilistic chance-constrained programming with two-side multi-randomness: an application to energy-environment systems management. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2093-2110.	4.0	3
546	Impact of different time series aggregation methods on optimal energy system design. Renewable Energy, 2018, 117, 474-487.	8.9	192
547	The role of renewable energy consumption and commercial services trade in carbon dioxide reduction: Evidence from 25 developing countries. Applied Energy, 2018, 211, 1229-1244.	10.1	261

#	Article	IF	CITATIONS
548	Technology Assessment: Developing Geothermal Energy Resources for Supporting Electrical System in Oregon. Innovation, Technology and Knowledge Management, 2018, , 67-175.	0.8	1
549	Optimization of blade pitch in H-rotor vertical axis wind turbines through computational fluid dynamics simulations. Applied Energy, 2018, 212, 1107-1125.	10.1	78
550	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. IEEE Access, 2018, 6, 24925-24951.	4.2	79
551	Quantifying the impact of urban climate by extending the boundaries of urban energy system modeling. Applied Energy, 2018, 222, 847-860.	10.1	82
552	An adaptive model with joint chance constraints for a hybrid wind-conventional generator system. Computational Management Science, 2018, 15, 563-582.	1.3	8
553	Adaptive learning-based time series prediction framework for building energy management. , 2018, , .		1
554	Environmental and cost optimal design of a biomass–Wind–PV electricity generation system. Renewable Energy, 2018, 126, 420-430.	8.9	57
555	A review of uncertainty characterisation approaches for the optimal design of distributed energy systems. Renewable and Sustainable Energy Reviews, 2018, 88, 258-277.	16.4	134
556	High-Performance Supercapacitor of Graphene Quantum Dots with Uniform Sizes. ACS Applied Materials & Samp; Interfaces, 2018, 10, 12983-12991.	8.0	163
557	A model of energy management analysis, case study of a sugar factory in Turkey. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	1.3	25
558	Optimizing residential heating and energy storage flexibility for frequency reserves. International Journal of Electrical Power and Energy Systems, 2018, 100, 540-549.	5.5	10
559	Renewable energy to improve energy situation in African island states. Renewable and Sustainable Energy Reviews, 2018, 88, 176-183.	16.4	55
560	Thermal-economic optimisation of a CHP gas turbine system by applying a fit-problem genetic algorithm. International Journal of Sustainable Energy, 2018, 37, 354-377.	2.4	4
561	The role of water-energy nexus in optimising water supply systems – Review of techniques and approaches. Renewable and Sustainable Energy Reviews, 2018, 82, 1424-1432.	16.4	108
562	Economic guideline about financial utilization of flat-plate solar collectors (FPSCs) for the consumer segment in the city of Eskisehir. Renewable and Sustainable Energy Reviews, 2018, 81, 2045-2058.	16.4	9
563	Renewable energy exploitation in the small island developing state of Mauritius: Current practice and future potential. Renewable and Sustainable Energy Reviews, 2018, 82, 2029-2038.	16.4	22
564	Lignocellulosic biorefinery as a model for sustainable development of biofuels and value added products. Bioresource Technology, 2018, 247, 1144-1154.	9.6	346
565	China' energy-water nexus: Hydropower generation potential of joint operation of the Three Gorges and Qingjiang cascade reservoirs. Energy, 2018, 142, 14-32.	8.8	38

#	Article	IF	CITATIONS
566	Automating pseudo-static analysis of concrete cantilever retaining wall using evolutionary algorithms. Measurement: Journal of the International Measurement Confederation, 2018, 115, 104-124.	5.0	29
567	"Solar heating and cooling systems by absorption and adsorption chillers driven by stationary and concentrating photovoltaic/thermal solar collectors: Modelling and simulation― Renewable and Sustainable Energy Reviews, 2018, 81, 1112-1146.	16.4	14
568	Selective harmonic elimination in inverters using bio-inspired intelligent algorithms for renewable energy conversion applications: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 2235-2253.	16.4	138
569	Forecasting daily global solar irradiance generation using machine learning. Renewable and Sustainable Energy Reviews, 2018, 82, 2254-2269.	16.4	98
570	A review of generation dispatch with large-scale photovoltaic systems. Renewable and Sustainable Energy Reviews, 2018, 81, 615-624.	16.4	44
571	Simulation tools application for artificial lighting in buildings. Renewable and Sustainable Energy Reviews, 2018, 82, 3007-3026.	16.4	48
572	Performance investigation of an advanced hybrid renewable energy system in indonesia. Environmental Progress and Sustainable Energy, 2018, 37, 1424-1432.	2.3	49
573	Towards adoption of building energy simulation and optimization for passive building design: A survey and a review. Energy and Buildings, 2018, 158, 1306-1316.	6.7	163
574	Market equilibria and interactions between strategic generation, wind, and storage. Applied Energy, 2018, 220, 876-892.	10.1	55
575	A thermally regenerative ammonia battery with carbon-silver electrodes for converting low-grade waste heat to electricity. Journal of Power Sources, 2018, 373, 95-102.	7.8	79
576	Solar heating and cooling systems by absorption and adsorption chillers driven by stationary and concentrating photovoltaic/thermal solar collectors: Modelling and simulation. Renewable and Sustainable Energy Reviews, 2018, 82, 1874-1908.	16.4	103
577	Optimization of non-catalytic transesterification of microalgae oil to biodiesel under supercritical methanol condition. Energy Conversion and Management, 2018, 156, 269-278.	9.2	70
578	Smart operations of smart grids integrated with distributed generation: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 524-535.	16.4	314
579	Review of control strategies for wave energy conversion systems and their validation: the wave-to-wire approach. Renewable and Sustainable Energy Reviews, 2018, 81, 366-379.	16.4	141
580	Integrating Renewable Energy Technologies into Distributed Energy Systems Maintaining System Flexibility. , $2018, $, .		6
581	Hybrid Energy System for Remote and Rural Villages. , 2018, , .		4
582	Adoption of Photovoltaic Systems Along a Sure Path: A Life-Cycle Assessment (LCA) Study Applied to the Analysis of GHG Emission Impacts. Energies, 2018, 11, 2806.	3.1	29
583	Capacity optimization of Distributed Generation for Stand-alone Microgrid Considering Hybrid Energy Storage Systems. , 2018, , .		0

#	Article	IF	CITATIONS
584	Seamless Switching Control Strategy for Diesel Generator and Energy Storage Hybrid Emergency Power Supply System. , 2018, , .		0
585	Analysis of Research Topics and Scientific Collaborations in Renewable Energy Using Community Detection. Sustainability, 2018, 10, 4510.	3.2	21
586	Multi-Stage Integration of Renewable Energy Technologies into Standalone Energy Systems. , 2018, , .		1
587	DC grid connected energy flow control formed by three different solar panels, fuel cell and battery-backed hybrid energy generation system. International Journal of Power and Energy Conversion, 2018, 9, 174.	0.3	0
588	Optimisation of biodiesel production of Black Soldier Fly larvae rearing on restaurant kitchen waste. Journal of Physics: Conference Series, 2018, 1097, 012052.	0.4	10
589	Comparative Study of Optimal Sizing of Renewable Energy System and Triple Bottom Line (TBL) Analysis for a University in Australia. , 2018, , .		1
590	Second generation bioethanol production from Arundo donax biomass: an optimization method. Energy Procedia, 2018, 148, 728-735.	1.8	9
591	Supervisory Model-based Control using Mixed Integer Optimization for stationary hybrid fuel cell systems. IFAC-PapersOnLine, 2018, 51, 320-325.	0.9	6
592	GIS Based Multi-Criteria Decision Analysis for Renewable Energy Sites Selection:Comparative Study. , 2018, , .		0
593	Soft Computing Optimization for the Biomass Supply Chain Operational Planning. , 2018, , .		4
594	Optimisation of aiming strategies in solar tower power plants. AIP Conference Proceedings, 2018, , .	0.4	3
595	Modeling and Experimental Validation of a Pico-Scale Francis Turbine for a Self-Powered Water Disinfection System., 2018,,.		O
596	A Conceptual Framework for a Building Integrated Photovoltaics (BIPV) Educative-Communication Approach. Sustainability, 2018, 10, 3781.	3.2	16
597	Dynamic programming based optimal renewable energy allocation in sustained wireless sensor networks. Journal of Renewable and Sustainable Energy, 2018, 10, 063705.	2.0	1
598	Deforestation: A Continuous Battleâ€"A Case Study from Central Asia and Other Countries. , 2018, , 73-117.		3
599	Asymptotic Output Tracked Artificial Immunity Controller for Eco-Maximum Power Point Tracking of Wind Turbine Driven by Doubly Fed Induction Generator. Energies, 2018, 11, 2632.	3.1	5
600	Optimization of Hybrid Energy System. , 2018, , .		0
601	Wind Power Optimization: A Comparison of Meta-Heuristic Algorithms. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012021.	0.6	2

#	Article	IF	CITATIONS
602	Experimental performance analysis of beeswax/expanded graphite composite for thermal energy storage in a shell and tube unit. International Journal of Green Energy, 2018, 15, 585-595.	3.8	6
603	Bi-objective optimization of a standalone hybrid PV–Wind–battery system generation in a remote area in Tunisia. Sustainable Energy, Grids and Networks, 2018, 16, 315-326.	3.9	59
604	Optimizing dispatch for a concentrated solar power tower. Solar Energy, 2018, 174, 1198-1211.	6.1	43
605	Photovoltaic Power Systems Optimization Research Status: A Review of Criteria, Constrains, Models, Techniques, and Software Tools. Applied Sciences (Switzerland), 2018, 8, 1761.	2.5	64
606	Adsorption of Biomass-Derived Products on MoO ₃ : Hydrogen Bonding Interactions under the Spotlight. ACS Omega, 2018, 3, 14165-14172.	3.5	10
607	Water vapor compression and its various applications. Renewable and Sustainable Energy Reviews, 2018, 98, 92-107.	16.4	51
608	Scheduling and economic analysis of hybrid solar water heating system based on timer and optimal control. Journal of Energy Storage, 2018, 20, 16-29.	8.1	17
609	A new evolutionary-analytical two-step optimization method for optimal wind turbine allocation considering maximum capacity. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	7
610	Day-Ahead Solar Forecasting Based on Multi-Level Solar Measurements. , 2018, , .		5
611	Stochastic Optimal Management of Renewable Microgrid Using Simplified Particle Swarm Optimization Algorithm. , $2018, , .$		5
612	A Hierarchical Optimal Operation Strategy of Hybrid Energy Storage System in Distribution Networks with High Photovoltaic Penetration. Energies, 2018, 11, 389.	3.1	12
613	Voltage stability enhancement based on DG units. Electrical Engineering, 2018, 100, 2707-2716.	2.0	9
614	Wavelet Decomposition and Convolutional LSTM Networks Based Improved Deep Learning Model for Solar Irradiance Forecasting. Applied Sciences (Switzerland), 2018, 8, 1286.	2.5	121
615	Uniform Decomposition and Positive-Gradient Differential Evolution for Multi-Objective Design of Wind Turbine Blade. Energies, 2018, 11, 1262.	3.1	3
616	A review of optimization approaches for hybrid distributed energy generation systems: Off-grid and grid-connected systems. Sustainable Cities and Society, 2018, 41, 320-331.	10.4	185
617	System design and policy suggestion for reducing electricity curtailment in renewable power systems for remote islands. Applied Energy, 2018, 225, 195-208.	10.1	12
618	Novel optical efficiency formulas for parabolic trough solar collectors: Computing method and applications. Applied Energy, 2018, 224, 682-697.	10.1	20
619	Metaheuristic methods applied to the pumps and turbines configuration design of water pumped storage systems. Journal of Energy Storage, 2018, 18, 196-205.	8.1	9

#	Article	IF	Citations
620	Laserâ€Textured Metal Substrates as Photoanodes for Enhanced PEC Water Splitting Reactions. Advanced Engineering Materials, 2018, 20, 1800167.	3 . 5	14
621	Spatio-temporal optimization of a future energy system for power-to-hydrogen applications in Germany. Energy, 2018, 158, 1130-1149.	8.8	159
622	Bioenergy–Biomass–Energy Crops. Green Energy and Technology, 2018, , 11-24.	0.6	0
623	A new topology with the repetitive controller of a reduced switch seven-level cascaded inverter for a solar PV-battery based microgrid. Engineering Science and Technology, an International Journal, 2018, 21, 639-653.	3.2	27
625	Water–Energy Nexus in Irrigated Areas. Lessons From Real Case Studies. , 2018, , 41-59.		5
626	Photovoltaic solar energy in the economic optimisation of energy supply and conversion. IET Renewable Power Generation, 2018, 12, 1263-1268.	3.1	18
627	Optimal Operation of Run of River Small Hydro Power Plant. BioPhysical Economics and Resource Quality, 2018, 3, 1.	2.4	4
628	MOF derived carbon based nanocomposite materials as efficient electrocatalysts for oxygen reduction and oxygen and hydrogen evolution reactions. RSC Advances, 2018, 8, 26728-26754.	3.6	75
629	A Multi-Criteria Approach to Achieve Constrained Cost-Optimal Energy Retrofits of Buildings by Mitigating Climate Change and Urban Overheating. Climate, 2018, 6, 37.	2.8	29
630	Fuzzy Stochastic Unit Commitment Model with Wind Power and Demand Response under Conditional Value-At-Risk Assessment. Energies, 2018, 11, 341.	3.1	9
631	Solar Reflector Materials Degradation Due to the Sand Deposited on the Backside Protective Paints. Energies, 2018, 11, 808.	3.1	9
632	Evaluating Land Eligibility Constraints of Renewable Energy Sources in Europe. Energies, 2018, 11, 1246.	3.1	50
633	Development Strategy for Sustainable Solar Home System in the Akha Upland Community of Thailand. Energies, 2018, 11, 1509.	3.1	1
634	Design of new controller for load frequency control of isolated microgrid considering system uncertainties. International Journal of Power and Energy Conversion, 2018, 9, 285.	0.3	4
635	Multiyear Load Growth Based Techno-Financial Evaluation of a Microgrid for an Academic Institution. IEEE Access, 2018, 6, 37533-37555.	4.2	30
636	Short-Term Wind Electric Power Forecasting Using a Novel Multi-Stage Intelligent Algorithm. Sustainability, 2018, 10, 881.	3.2	19
637	Clustering of solar energy facilities using a hybrid fuzzy c-means algorithm initialized by metaheuristics. Journal of Cleaner Production, 2018, 191, 445-457.	9.3	30
638	Biomass feedstock supply chain design $\hat{a} \in \hat{a}$ a taxonomic review and a decomposition-based methodology. International Journal of Production Research, 2018, 56, 5626-5659.	7.5	26

#	Article	IF	CITATIONS
639	Experimental Analysis of Biofuel and Undistilled Biofuel from Waste Fish Fat in Diesel Engine. Green Energy and Technology, 2018, , 1339-1359.	0.6	0
640	A review of current challenges and trends in energy systems modeling. Renewable and Sustainable Energy Reviews, 2018, 96, 156-166.	16.4	181
641	All-day coordinated optimal scheduling in distribution grids with PV penetration. Electric Power Systems Research, 2018, 164, 112-122.	3.6	11
642	Comparison of energy systems in Small Island Developing States. Utilities Policy, 2018, 54, 46-54.	4.0	21
643	A review of modelling tools for energy and electricity systems with large shares of variable renewables. Renewable and Sustainable Energy Reviews, 2018, 96, 440-459.	16.4	465
644	Enhancement of solar energy collection with magnetic nanofluids. Thermal Science and Engineering Progress, 2018, 8, 130-135.	2.7	38
645	Impact of electric vehicles on a future renewable energy-based power system in Europe with a focus on Germany. International Journal of Energy Research, 2018, 42, 2670-2685.	4.5	43
646	Cost-optimal electricity systems with increasing renewable energy penetration for islands across the globe. Applied Energy, 2018, 226, 437-449.	10.1	91
647	Mathematical programming methods for microgrid design and operations: a survey on deterministic and stochastic approaches. Computational Optimization and Applications, 2018, 71, 553-608.	1.6	5
648	Investigation of work function and chemical composition of thin films of borides and nitrides. Surface and Interface Analysis, 2018, 50, 1138-1144.	1.8	21
649	4.15 Solar Cells. , 2018, , 637-658.		4
650	5.19 Energy Management in Ocean Energy Systems. , 2018, , 778-807.		15
651	Co0.5Ni0.5P nanoparticles embedded in carbon layers for efficient electrochemical water splitting. Journal of Alloys and Compounds, 2018, 764, 88-95.	5 . 5	29
652	Estimation and optimization of heating energy demand of a mountain shelter by soft computing techniques. Sustainable Cities and Society, 2018, 41, 728-748.	10.4	18
653	Dimensioning of Point Absorbers for Wave Energy Conversion by Means of Differential Evolutionary Algorithms. IEEE Transactions on Sustainable Energy, 2019, 10, 1076-1085.	8.8	18
654	Renewable energy selection for net-zero energy communities: Life cycle based decision making under uncertainty. Renewable Energy, 2019, 130, 558-573.	8.9	142
655	Particle swarm optimization algorithm for optical-geometric optimization of linear fresnel solar concentrators. Renewable Energy, 2019, 130, 992-1001.	8.9	41
656	Transient heat transfer performance of a vertical double U-tube borehole heat exchanger under different operation conditions. Renewable Energy, 2019, 131, 494-505.	8.9	29

#	Article	IF	CITATIONS
657	Online Energy Management in Commercial Buildings using Deep Reinforcement Learning. , 2019, , .		12
658	A novel power optimized hybrid renewable energy system using neural computing and bee algorithm. Automatika, 2019, 60, 332-339.	2.0	8
659	Lignin valorization process control under feedstock uncertainty through a dynamic stochastic programming approach. Reaction Chemistry and Engineering, 2019, 4, 1740-1747.	3.7	3
660	Energy management for user's thermal and power needs: A survey. Energy Reports, 2019, 5, 1048-1076.	5.1	30
661	Analysis of Research Topics and Scientific Collaborations in Energy Saving Using Bibliometric Techniques and Community Detection. Energies, 2019, 12, 2030.	3.1	18
662	Conceptual Framework of Antecedents to Trends on Permanent Magnet Synchronous Generators for Wind Energy Conversion Systems. Energies, 2019, 12, 2616.	3.1	9
663	Evaluation of Renewable Energy Alternatives for Turkey via Modified Fuzzy AHP. International Journal of Energy Economics and Policy, 2019, 9, 31-39.	1.2	22
664	Tailoring parallel alternating criteria search for domain specific MIPs: Application to maritime inventory routing. Computers and Operations Research, 2019, 111, 21-34.	4.0	4
665	Electric Power Industry: Operational and Public Policy Challenges and Opportunities. Production and Operations Management, 2019, 28, 2738-2777.	3.8	43
666	Optimal Unit Commitment with Concentrated Solar Power and Thermal Energy Storage in Afghanistan Electrical System. International Journal of Emerging Electric Power Systems, 2019, 20, .	0.8	4
667	Biofuel supply chain optimization. , 2019, , 65-93.		1
668	An optimization model for site-wide scheduling of coupled production plants with an application to the ammonia network of a petrochemical site. Optimization and Engineering, 2019, 20, 969-999.	2.4	9
669	Study of solvent effect on structural and photoconductive behavior of ternary chalcogenides InBiS3-In2S3-Bi2S3 composite thin films deposited via AACVD. Main Group Metal Chemistry, 2019, 42, 102-112.	1.6	14
670	A model study on effects of vanadium ion diffusion through ion exchange membranes in a non-aqueous redox flow battery. Journal of Renewable and Sustainable Energy, 2019, 11, 034701.	2.0	2
671	Multiobjective Genetic Algorithm-Based Optimization of PID Controller Parameters for Fuel Cell Voltage and Fuel Utilization. Sustainability, 2019, 11, 3290.	3.2	10
672	Theoretical investigation of strain-engineered WSe2 monolayers as anode material for Li-ion batteries. Journal of Alloys and Compounds, 2019, 804, 370-375.	5.5	39
673	Review of indicators for comparing environmental effects across energy sources. Environmental Research Letters, 2019, 14, 103002.	5.2	8
674	Reconstructing directional causal networks with random forest: Causality meeting machine learning. Chaos, 2019, 29, 093130.	2.5	18

#	Article	IF	CITATIONS
675	Cool Roof Impact on Building Energy Need: The Role of Thermal Insulation with Varying Climate Conditions. Energies, 2019, 12, 3354.	3.1	24
676	Mitigating the current energy crisis in Nepal with renewable energy sources. Renewable and Sustainable Energy Reviews, 2019, 116, 109388.	16.4	164
677	Optimum battery depth of discharge for off-grid solar PV/battery system. Journal of Energy Storage, 2019, 26, 100999.	8.1	76
678	A Comparison of Different District Integration for a Distributed Generation System for Heating and Cooling in an Urban Area. Applied Sciences (Switzerland), 2019, 9, 3521.	2.5	10
679	A novel axial flow self-rectifying turbine for use in wave energy converters. Energy, 2019, 189, 116256.	8.8	3
680	Self-recuperative high temperature co-electrolysis-based methanol production with vortex search-based exergy efficiency enhancement. Journal of Cleaner Production, 2019, 239, 118029.	9.3	17
681	Comparative extraction of Jatropha curcas L. lipids by conventional and enzymatic methods. Food and Bioproducts Processing, 2019, 118, 32-39.	3.6	9
682	Potential and method for effective using of biomass from agricultural by-products (paddy, maize,) Tj ETQq1 1	0.784314 rg 0.3	BT/Overlock
683	Performance Evaluation of Absorber Rod Type Solar Air Collector. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012073.	0.3	1
684	Statistical Approach for Wind Speed Forecasting Using Markov Chain Modelling as the Probabilistic Model. , 2019, , .		1
685	Sensitivity Analysis on Borehole Thermal Energy Storage Under Intermittent Operation Mode. Energy Procedia, 2019, 158, 4655-4663.	1.8	8
686	Robust maximum power point tracking of photovoltaic generators based on real-time dynamic conductance estimation. Energy Conversion and Management, 2019, 200, 112068.	9.2	1
687	A review on recent sizing methodologies of hybrid renewable energy systems. Energy Conversion and Management, 2019, 199, 112027.	9.2	321
688	An optimizer using the PSO algorithm to determine thermal parameters of PCM: A case study of grey water heat harnessing. International Journal of Heat and Mass Transfer, 2019, 144, 118574.	4.8	6
689	Photovoltaic Expansion-Limit through a Net Energy Metering Scheme for Selected Malaysian Public Hospitals. Sustainability, 2019, 11, 5131.	3.2	6
690	Continuous optimisation techniques for optimal aiming strategies in solar power tower plants. Solar Energy, 2019, 190, 525-530.	6.1	8
691	Computational insight of monolayer SnS2 as anode material for potassium ion batteries. Applied Surface Science, 2019, 496, 143625.	6.1	63
692	Comprehensive review on structure and operation of virtual power plant in electrical system. IET Generation, Transmission and Distribution, 2019, 13, 145-156.	2.5	97

#	Article	IF	Citations
693	State-of-the-art techniques for modelling of uncertainties in active distribution network planning: A review. Applied Energy, 2019, 239, 1509-1523.	10.1	170
694	A Bilateral Tradeoff Decision Model for Wind Power Utilization with Extensive Load Scheduling. Applied Sciences (Switzerland), 2019, 9, 1777.	2.5	1
695	Modified genetic algorithm with simulated annealing applied to optimal load dispatch of the Three Gorges Hydropower Plant in China. Hydrological Sciences Journal, 2019, 64, 1129-1139.	2.6	14
696	Paving the way towards green catalytic materials for green fuels: impact of chemical species on Mo-based catalysts for hydrodeoxygenation. RSC Advances, 2019, 9, 18292-18301.	3.6	9
697	Energy harvesting from flexible piezoelectric ring. Smart Materials and Structures, 2019, 28, 084007.	3.5	4
698	A review of assessment methods for the urban environment and its energy sustainability to guarantee climate adaptation of future cities. Renewable and Sustainable Energy Reviews, 2019, 112, 733-746.	16.4	128
699	Optimization Techniques and Multi-Objective Analysis in Hybrid Solar-Wind Power Systems for Grid-Connected Supply. IOP Conference Series: Materials Science and Engineering, 2019, 538, 012040.	0.6	5
700	The state of art on the applications, technology integration, and latest research trends of earth-air-heat exchanger system. Geothermics, 2019, 82, 34-50.	3.4	54
701	Interaction effect of room opening and air inlet on solar chimney performance. Applied Thermal Engineering, 2019, 159, 113877.	6.0	36
702	Design and analysis of an agingâ€aware energy management system for islanded grids using mixedâ€integer quadratic programming. International Journal of Energy Research, 2019, 43, 4127-4147.	4.5	26
703	Multi-objective optimization of solar photovoltaic and solar thermal collectors for industrial rooftop applications. Energy Conversion and Management, 2019, 195, 392-408.	9.2	30
704	A novel design-based optimization framework for enhancing the energy efficiency of high-rise office buildings in urban areas. Sustainable Cities and Society, 2019, 49, 101597.	10.4	45
705	Date Seeds (Phoenix dactylifera L.) Valorization for Boilers in the Mediterranean Climate. Sustainability, 2019, 11, 711.	3.2	14
706	Optimal Design of a Distributed Energy System Using the Functional Interval Model That Allows Reduced Carbon Emissions in Guanzhong, a Rural Area of China. Sustainability, 2019, 11, 1930.	3.2	4
707	Assessment of Decentralized Electricity Production from Hybrid Renewable Energy Sources for Sustainable Energy Development in Nigeria. Open Engineering, 2019, 9, 72-89.	1.6	17
708	Quantum computing for energy systems optimization: Challenges and opportunities. Energy, 2019, 179, 76-89.	8.8	114
709	An Evolutionary Computational Approach for Designing Micro Hydro Power Plants. Energies, 2019, 12, 878.	3.1	8
710	Life cycle cost assessment of wind power–hydrogen coupled integrated energy system. International Journal of Hydrogen Energy, 2019, 44, 29399-29408.	7.1	61

#	Article	IF	CITATIONS
711	Effect of different design aspects of pipe for earth air tunnel heat exchanger system: A state of art. International Journal of Green Energy, 2019, 16, 598-614.	3.8	17
712	Size optimization of a stand-alone micro-grid integrated with flexible load and the complementary of solar and wind. Journal of Renewable and Sustainable Energy, 2019, 11, 025502.	2.0	1
713	Modeling wind power investments, policies and social benefits for deregulated electricity market – A review. Applied Energy, 2019, 242, 364-377.	10.1	55
714	Designing a reliable wind farm through hybridization with biomass energy. Applied Thermal Engineering, 2019, 154, 171-179.	6.0	23
715	Multicriteria analysis of renewable-based electrification projects in developing countries. Annals of Operations Research, 2022, 312, 1375-1401.	4.1	4
716	Innovative design of microencapsulated phase change materials for thermal energy storage and versatile applications: a review. Sustainable Energy and Fuels, 2019, 3, 1091-1149.	4.9	194
717	Operations Research and Emergent Technologies. Management and Industrial Engineering, 2019, , $183\text{-}197$.	0.4	0
718	Machine-learning methods for integrated renewable power generation: A comparative study of artificial neural networks, support vector regression, and Gaussian Process Regression. Renewable and Sustainable Energy Reviews, 2019, 108, 513-538.	16.4	187
719	Designing and economic aspects of run-of-canal based micro-hydro system on Balloki-Sulaimanki Link Canal-I for remote villages in Punjab, Pakistan. Renewable Energy, 2019, 141, 76-87.	8.9	24
720	Review of models for integrating renewable energy in the generation expansion planning. Applied Energy, 2019, 242, 1573-1587.	10.1	161
721	Management Science. Management and Industrial Engineering, 2019, , .	0.4	2
722	Machine learning methods to assist energy system optimization. Applied Energy, 2019, 243, 191-205.	10.1	59
723	The Development of IoT Within Energy Infrastructure. , 2019, , 27-90.		5
724	Preparation and Characterization of TiO2-PVDF/PMMA Blend Membranes Using an Alternative Non-Toxic Solvent for UF/MF and Photocatalytic Application. Molecules, 2019, 24, 724.	3.8	67
725	Combined cultivar and harvest time to enhance biomass and methane yield in sorghum under warm dry conditions in Pakistan. Industrial Crops and Products, 2019, 132, 84-91.	5.2	15
726	Triple Bottom Line Analysis and Optimum Sizing of Renewable Energy Using Improved Hybrid Optimization Employing the Genetic Algorithm: A Case Study from India. Energies, 2019, 12, 349.	3.1	15
727	A review of optimum conditions of transesterification process for biodiesel production from various feedstocks. International Journal of Environmental Science and Technology, 2019, 16, 2481-2502.	3.5	18
728	Demand-side energy management by cooperative combination of plans: A multi-objective method applicable to isolated communities. Applied Energy, 2019, 240, 453-472.	10.1	22

#	Article	IF	Citations
729	Building envelope design: Multi-objective optimization to minimize energy consumption, global cost and thermal discomfort. Application to different Italian climatic zones. Energy, 2019, 174, 359-374.	8.8	160
731	A reliability-and-cost-based fuzzy approach to optimize preventive maintenance scheduling for offshore wind farms. Mechanical Systems and Signal Processing, 2019, 124, 643-663.	8.0	67
732	eloT., 2019,,.		11
733	Sensitivity and reliability evaluation for a thermal power plant subject to complex failures and human error. Multidiscipline Modeling in Materials and Structures, 2019, 15, 895-912.	1.3	2
734	Influence of situational factors on household's energy consumption behaviour. International Journal of Energy Sector Management, 2019, 14, 389-407.	2.3	11
735	Optimal Scheduling in Smart Grids with Prediction Error Probability Limitation. , 2019, , .		0
736	Improved pole-placement for adaptive pitch control. International Journal of Swarm Intelligence, 2019, 4, 111.	0.3	0
737	Renewable energy market SMEs: antecedents of internationalization. Critical Perspectives on International Business, 2019, 16, 407-447.	2.0	4
738	Optimization Approaches for Model Predictive Power Flow Control in Hybrid Fuel Cell Systems. , 2019, , .		1
739	DESAIN OPTIMAL POWER SISTEM STABILIZER PADA UNIT PEMBANGKIT BAKARU BERBASIS ANT COLONY OPTIMIZATION. Transmisi, 2019, 21, 70.	0.1	0
740	Performance and Cost Analysis of Solar Systems for an Integrated Building Considering Different PV and Inverter Models., 2019,,.		3
741	A Genetic Algorithm Driven Linear Programming for Battery Optimal Scheduling in nearly Zero Energy Buildings. , 2019, , .		6
742	Sizing of biomass-fired ORC cogeneration unit within coal-fired municipal heating plant back fitting project. E3S Web of Conferences, 2019, 137, 01042.	0.5	1
743	Photovoltaic-Based Interconnected-Modified DC-Nanogrids within an Open Energy Distribution System. , 2019, , .		4
744	Establishment of Clean Energy Demand Forecasting Model in China Based on Genetic Algorithms. IOP Conference Series: Earth and Environmental Science, 2019, 384, 012143.	0.3	0
745	Fault Detection in Power System Integrated Network with Distribution Generators Using Machine Learning Algorithms. , 2019, , .		7
746	Integration of Renewable Energy sources for Self-reliant building. , 2019, , .		0
747	Classification and Evaluation of Concepts for Improving the Performance of Applied Energy System Optimization Models. Energies, 2019, 12, 4656.	3.1	30

#	ARTICLE	IF	Citations
748	Power Quality improvement provide Digital Economy by the Smart Grid. IOP Conference Series: Materials Science and Engineering, 2019, 561, 012097.	0.6	5
749	Ensemble of constraint-handling techniques for solving reservoir scheduling problems. Journal of Hydroinformatics, 2019, 21, 962-979.	2.4	2
750	Recent Approaches of Forecasting and Optimal Economic Dispatch to Overcome Intermittency of Wind and Photovoltaic (PV) Systems: A Review. Energies, 2019, 12, 4392.	3.1	39
751	A Guide to Solar Power Forecasting using ARMA Models. , 2019, , .		31
752	A comprehensive review of energy management and planning of islanded microgrids: Part 1 $\hat{a} \in \text{``}$ optimization formulations. CSEE Journal of Power and Energy Systems, 2019, , .	1.1	11
7 53	Review and Comparison of Intelligent Optimization Modelling Techniques for Energy Forecasting and Condition-Based Maintenance in PV Plants. Energies, 2019, 12, 4163.	3.1	8
754	Review of Anaerobic Digestion Modeling and Optimization Using Nature-Inspired Techniques. Processes, 2019, 7, 953.	2.8	42
755	A Novel Framework for Cost Optimization of Renewable Energy Installations: A Case Study of Nigeria. Energies, 2019, 12, 4311.	3.1	8
756	Comparison of Optimization Methods for Hybrid Renewable Energy Systems. , 2019, , .		1
757	Optimal Scheduling of Residential Home Appliances by Considering Energy Storage and Stochastically Modelled Photovoltaics in a Grid Exchange Environment Using Hybrid Grey Wolf Genetic Algorithm Optimizer. Applied Sciences (Switzerland), 2019, 9, 5226.	2.5	41
758	Axial-Flux Permanent Magnet Synchronous Generator for Float Buoy Type Wave Energy Converters. , 2019, , .		2
759	Reflecting trends in the academic landscape of sustainable energy using probabilistic topic modeling. Energy, Sustainability and Society, 2019, 9, .	3.8	17
760	Coordinated Scheduling of Renewable Energy Sources in the Unit Commitment Problem: A Review of Recent Literature. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 15-37.	2.3	1
761	A toolbox for the optimal design of run-of-river hydropower plants. Environmental Modelling and Software, 2019, 111, 134-152.	4.5	52
762	Metal-based direct hydrogen generation as unconventional high density energy. Frontiers in Energy, 2019, 13, 27-53.	2.3	28
763	Innovative operational strategies for biogas plant including temperature and stirring management. Waste Management and Research, 2019, 37, 237-246.	3.9	16
764	Multiobjective optimization of a photovoltaic system generation with hydraulic storage in remote areas. Environmental Progress and Sustainable Energy, 2019, 38, 13095.	2.3	4
765	Comparison of various approaches to design windâ€PV rural electrification projects in remote areas of developing countries. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e332.	4.1	7

#	Article	IF	CITATIONS
766	Experimental and numerical investigation of heat transfer performance and sustainability of deep borehole heat exchangers coupled with ground source heat pump systems. Applied Thermal Engineering, 2019, 149, 975-986.	6.0	99
767	Diagnostic method of solar thermal system based on the short time on-line measurements. Applied Thermal Engineering, 2019, 148, 420-429.	6.0	5
768	CO Electroreduction: Current Development and Understanding of Cu-Based Catalysts. ACS Catalysis, 2019, 9, 49-65.	11.2	79
769	Integrated assessment of a sustainable microgrid for a remote village in hilly region. Energy Conversion and Management, 2019, 180, 442-472.	9.2	99
770	Evaluation of design objectives in district heating system design. Energy, 2019, 167, 369-378.	8.8	9
771	A model predictive controller for improvement in power quality from a hybrid renewable energy system. Soft Computing, 2019, 23, 2627-2635.	3.6	11
772	A multi-objective risk-based robust optimization approach to energy management in smart residential buildings under combined demand and supply uncertainty. Energy, 2019, 170, 1113-1129.	8.8	96
773	Current state and optimal development of the renewable electricity generation mix in Spain. Renewable Energy, 2019, 135, 1108-1120.	8.9	17
774	Energy efficiency promotion in Greece in light of risk: Evaluating policies as portfolio assets. Energy, 2019, 170, 818-831.	8.8	36
775	Optimal energy management and economic analysis of a grid-connected hybrid solar water heating system: A case of Bloemfontein, South Africa. Sustainable Energy Technologies and Assessments, 2019, 31, 273-291.	2.7	32
777	Equilibrium fuel supply and carbon credit pricing under market competition and environmental regulations: A California case study. Applied Energy, 2019, 236, 815-824.	10.1	20
778	A systematic review of empirical methods for modelling sectoral carbon emissions in China. Journal of Cleaner Production, 2019, 215, 1382-1401.	9.3	42
779	Hydrogen supply chain network design: An optimization-oriented review. Renewable and Sustainable Energy Reviews, 2019, 103, 342-360.	16.4	94
780	A novel estimation approach for the solar radiation potential with its complex spatial pattern via machine-learning techniques. Renewable Energy, 2019, 133, 575-592.	8.9	19
781	A review on green economy and development of green roads and highways using carbon neutral materials. Renewable and Sustainable Energy Reviews, 2019, 101, 600-613.	16.4	53
782	Modeling and simulation on a water vapor high temperature heat pump system. Energy, 2019, 168, 1063-1072.	8.8	41
783	Optimal sizing and energy management of stand-alone hybrid photovoltaic/wind system based on hydrogen storage considering LOEE and LOLE reliability indices using flower pollination algorithm. Renewable Energy, 2019, 135, 1412-1434.	8.9	197
784	An integrated GIS-based Ordered Weighted Averaging analysis for solar energy evaluation in Iran: Current conditions and future planning. Renewable Energy, 2019, 136, 1130-1146.	8.9	94

#	Article	IF	CITATIONS
785	Optimal planning of the joint placement of photovoltaic panels and green roofs under climate change uncertainty. Omega, 2020, 90, 101986.	5.9	14
786	Green synthesized materials for sensor, actuator, energy storage and energy generation: a review. Polymer-Plastics Technology and Materials, 2020, 59, 1-62.	1.3	26
787	Sensorless Maximum Power Extraction Control of a Hydrostatic Tidal Turbine Based on Adaptive Extreme Learning Machine. IEEE Transactions on Sustainable Energy, 2020, 11, 426-435.	8.8	18
788	Integer cat swarm optimization algorithm for multiobjective integer problems. Soft Computing, 2020, 24, 1927-1955.	3.6	3
789	Bioinspired Computational Intelligence and Transportation Systems: A Long Road Ahead. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 466-495.	8.0	38
790	Experimental analysis of convective heat transfer on tubes using twisted tape inserts, louvered strip inserts and surface treated tube. International Journal of Ambient Energy, 2020, 41, 540-546.	2.5	22
791	Assessing a simplified procedure to reconcile distributed renewable and interactive energy systems and urban patterns. The case study of school buildings in Rome. Journal of Urban Design, 2020, 25, 328-349.	1.4	8
792	Optimal design of renewable integrated heat and electricity supply systems with genetic algorithm: household application in Iran. International Journal of Environmental Science and Technology, 2020, 17, 2185-2196.	3.5	6
793	Flexibility requirements and electricity system planning: Assessing inter-regional coordination with large penetrations of variable renewable supplies. Renewable Energy, 2020, 145, 2770-2782.	8.9	42
794	Performance improvement of an axial-flow pump with inlet guide vanes in the turbine mode. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 323-331.	1.4	12
795	Experimental Study to Investigate the Effect of Backfilling Materials on Thermal Performance of Ground Air Heat Exchanger System. Journal of Thermal Science and Engineering Applications, 2020, 12, .	1.5	4
796	Environmental Concerns and Sustainable Development. , 2020, , .		10
797	Conservation of Energy Resources for Sustainable Development: A Big Issue and Challenge for Future. , 2020, , 293-315.		2
798	To study the effect of different parameters on the thermal performance of ground-air heat exchanger system: In situ measurement. Renewable Energy, 2020, 146, 2070-2083.	8.9	19
799	A thermostatted kinetic theory model for a hybrid multisource system with storage. Applied Mathematical Modelling, 2020, 78, 232-248.	4.2	5
800	Modification of the solar heating system diagnostic method under operating conditions. Applied Thermal Engineering, 2020, 165, 114474.	6.0	3
801	Simulation optimisation towards energy efficient green buildings: Current status and future trends. Journal of Cleaner Production, 2020, 254, 120012.	9.3	89
802	A systematic review of genetic algorithm-based multi-objective optimisation for building retrofitting strategies towards energy efficiency. Energy and Buildings, 2020, 210, 109690.	6.7	99

#	Article	IF	CITATIONS
803	Ternary nanocomposite of cobalt oxide nanograins and silver nanoparticles grown on reduced graphene oxide conducting platform for high-performance supercapattery electrode material. Journal of Alloys and Compounds, 2020, 821, 153452.	5.5	46
804	Biomass mediated multi layered NaNixCo1â^'xO2 (xÂ=Â0.4) and α-Fe2O3 nanoparticles for aqueous sodium ion battery. Journal of Electroanalytical Chemistry, 2020, 858, 113809.	3.8	12
805	Effect of grid and optimization on improving the electrical performance of compound parabolic concentrator photovoltaic cells. Solar Energy, 2020, 196, 607-615.	6.1	11
806	Optimal placement and sizing of multi-type FACTS devices in power systems using metaheuristic optimisation techniques: An updated review. Ain Shams Engineering Journal, 2020, 11, 611-628.	6.1	7 5
807	Functional metal oxide ceramics as electron transport medium in photovoltaics and photo-electrocatalysis., 2020,, 207-273.		4
808	Developing a Design of a Composite Linear Fresnel Mirror Concentrating System. Applied Solar Energy (English Translation of Geliotekhnika), 2020, 56, 192-197.	1.6	0
809	Carbon quantum dots intercalated in polypyrrole (PPy) thin electrodes for accelerated energy storage. Electrochimica Acta, 2020, 364, 137281.	5.2	26
810	Energy Retrofit in European Building Portfolios: A Review of Five Key Aspects. Sustainability, 2020, 12, 7465.	3.2	31
811	All you need to know about model predictive control for buildings. Annual Reviews in Control, 2020, 50, 190-232.	7.9	340
812	Renewable energy and energy conservation area policy (REECAP) framework: A novel methodology for bottom-up and top-down principles integration. Energy Strategy Reviews, 2020, 32, 100544.	7.3	9
813	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. Applied Physics Reviews, 2020, 7, .	11.3	28
814	Power System Stability with Power-Electronic Converter Interfaced Renewable Power Generation: Present Issues and Future Trends. Energies, 2020, 13, 3441.	3.1	64
815	A Hybrid Optimization Approach for Autonomy Enhancement of Nearly-Zero-Energy Buildings Based on Battery Performance and Artificial Neural Networks. Energies, 2020, 13, 3680.	3.1	14
816	Renewable diesel via solventless and hydrogen-free catalytic deoxygenation of palm fatty acid distillate. Journal of Cleaner Production, 2020, 274, 122850.	9.3	38
817	Multi-time Scale Active and Reactive Power Coordinated Dispatch on Distribution Network with Distributed Generators., 2020,,.		2
819	Advances in process development of aqueous CO2 mineralisation towards scalability. Journal of Environmental Chemical Engineering, 2020, 8, 104453.	6.7	36
820	Design of water pumped storage systems: A sensitivity and scenario analysis for island microgrids. Sustainable Energy Technologies and Assessments, 2020, 42, 100847.	2.7	7
821	Growth rate of solar thermal systems in Baltic States: Slow but steady wins the race?. Energy Sources, Part B: Economics, Planning and Policy, 2020, 15, 423-435.	3.4	5

#	Article	IF	CITATIONS
822	Optimal sizing of grid-connected hybrid renewable energy systems without storage: a generalized optimization model. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-34.	2.3	8
823	Recent advances in process and catalyst for CO2 reforming of methane. Renewable and Sustainable Energy Reviews, 2020, 134, 110312.	16.4	116
824	A thermostatted model for a network of energy sources: Analysis on the initial condition. E3S Web of Conferences, 2020, 170, 01031.	0.5	1
825	Defective Indium/Indium Oxide Heterostructures for Highly Selective Carbon Dioxide Electrocatalysis. Inorganic Chemistry, 2020, 59, 12437-12444.	4.0	40
826	A Systematic Review of Statistical and Machine Learning Methods for Electrical Power Forecasting with Reported MAPE Score. Entropy, 2020, 22, 1412.	2.2	55
827	Estimating bat fatality at a Texas wind energy facility: implications transcending the United States–Mexico border. Journal of Mammalogy, 2020, 101, 1533-1541.	1.3	8
828	Autonomous Energy Regions as a Proposed Choice of Selecting Selected EU Regions—Aspects of Their Creation and Management. Energies, 2020, 13, 6444.	3.1	14
829	The importance of the Central Asian region in energy security at the global level: A review. Journal of Public Affairs, 2022, 22, e2427.	3.1	1
830	Design Optimization of a Composite Solar Wall Integrating a PCM in a Individual House: Heating Demand and Thermal Comfort Considerations. Energies, 2020, 13, 5640.	3.1	9
831	Comparison of Solar Collector Testing Methods—Theory and Practice. Processes, 2020, 8, 1340.	2.8	10
832	A review on the technologies, design considerations and numerical models of tidal current turbines. Renewable Energy, 2020, 157, 1274-1288.	8.9	93
833	Optimal Design of Photovoltaic Power Plant Using Hybrid Optimisation: A Case of South Algeria. Energies, 2020, 13, 2776.	3.1	12
834	A photocatalytic transformation realized by Pd/TiO2 particle size modulation: from oxidative dehydrogenation of ethane to direct dehydrogenation of ethane. Chemical Engineering Journal, 2020, 395, 125120.	12.7	19
835	A game theoretic approach for car pricing and its energy efficiency level versus governmental sustainability goals by considering rebound effect: A case study of South Korea. Applied Energy, 2020, 271, 115196.	10.1	26
836	A Dendrite-Resistant Zinc-Air Battery. IScience, 2020, 23, 101169.	4.1	17
837	Optimized micro-hydro power plants layout design using messy genetic algorithms. Expert Systems With Applications, 2020, 159, 113539.	7.6	14
838	Partial cross mapping eliminates indirect causal influences. Nature Communications, 2020, 11, 2632.	12.8	47
839	Federating Smart Cluster Energy Grids for Peer-to-Peer Energy Sharing and Trading. IEEE Access, 2020, 8, 102419-102435.	4.2	18

#	Article	IF	CITATIONS
840	Maintenance of Passive House Standard in the Light of Long-Term Study on Energy Use in a Prefabricated Lightweight Passive House in Central Europe. Energies, 2020, 13, 2801.	3.1	9
841	Modelling demand flexibility and energy storage to support increased penetration of renewable energy resources on Porto Santo., 2020, 10, 1118-1132.		3
842	Modeling and Energy Efficiency Analysis of Thermal Power Plant with High Temperature Thermal Energy Storage (HTTES). Journal of Thermal Science, 2020, 29, 1025-1035.	1.9	7
843	Optimisation of biomass-fired cogeneration plants using ORC technology. Renewable Energy, 2020, 159, 195-214.	8.9	22
844	Groundwater safe yield powered by clean wind energy. Environmental Monitoring and Assessment, 2020, 192, 419.	2.7	2
845	Feasibility analysis: Evaluating sites for possible renewable energy options and their implications to minimize the cost. International Journal of Electrical Engineering and Education, 2020, , 002072092092853.	0.8	4
846	Wind Turbine Airfoil Boundary Layer Optimization Using Genetic Algorithm with 3D Rotational Augmentation. , 2020, , .		1
847	A Novel Hybrid Ant Colony-Particle Swarm Optimization Techniques Based Tuning STATCOM for Grid Code Compliance. IEEE Access, 2020, 8, 41566-41587.	4.2	33
848	Sustainability and Optimization: From Conceptual Fundamentals to Applications. Sustainability, 2020, 12, 2027.	3.2	31
849	Planning stand-alone electricity generation systems, a multiple objective optimization and fuzzy decision making approach. Heliyon, 2020, 6, e03534.	3.2	12
850	A Simplified Method to Avoid Shadows at Parabolic-Trough Solar Collectors Facilities. Symmetry, 2020, 12, 278.	2.2	7
851	Worldwide Research on Low Cost Technologies through Bibliometric Analysis. Inventions, 2020, 5, 9.	2.5	11
852	Investigation and optimization of a Co-Generation plant integrated of gasifier, gas turbine and heat pipes using minimization of Gibbs free energy, Lagrange method and response surface methodology. International Journal of Hydrogen Energy, 2020, 45, 19027-19044.	7.1	29
853	District Energy Systems: Challenges and New Tools for Planning and Evaluation. Energies, 2020, 13, 2967.	3.1	20
854	Extreme events in time series aggregation: A case study for optimal residential energy supply systems. Applied Energy, 2020, 275, 115223.	10.1	23
855	Combined electrocoagulation processes as a novel approach for enhanced pollutants removal: A state-of-the-art review. Science of the Total Environment, 2020, 744, 140806.	8.0	99
856	Optimized controller for renewable energy sources integration into microgrid: Functions, constraints and suggestions. Journal of Cleaner Production, 2020, 256, 120419.	9.3	62
857	A review on solar forecasting and power management approaches for energyâ€harvesting wireless sensor networks. International Journal of Communication Systems, 2020, 33, e4366.	2.5	24

#	Article	IF	CITATIONS
858	Modeling of PV system and parameter extraction based on experimental data: Review and investigation. Solar Energy, 2020, 199, 742-760.	6.1	102
860	Power Guarantee for Electric Systems Using Real-Time Scheduling. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1783-1798.	5 . 6	3
861	A Comparative Global Overview for Flat-Plate Solar Collectors (FPSCS) in G-7 and G-20 Countries. Eurasian Studies in Business and Economics, 2020, , 87-98.	0.4	0
862	Towards Optimal Sustainable Energy Systems in Nordic Municipalities. Energies, 2020, 13, 290.	3.1	15
863	Wind Turbines Offshore Foundations and Connections to Grid. Inventions, 2020, 5, 8.	2.5	9
864	Probabilistic Optimal Power Flow for Day-Ahead Dispatching of Power Systems with High-Proportion Renewable Power Sources. Sustainability, 2020, 12, 518.	3.2	2
865	Design and optimization of biomass electricity supply chain with uncertainty in material quality, availability and market demand. Energy, 2020, 197, 117165.	8.8	57
866	Non-Causal Linear Optimal Control of Wave Energy Converters With Enhanced Robustness by Sliding Mode Control. IEEE Transactions on Sustainable Energy, 2020, 11, 2201-2209.	8.8	17
867	On the modeling of a solar, wind and fossil fuel energy source by means of the thermostatted kinetic theory. European Physical Journal Plus, 2020, 135, 1.	2.6	5
868	Energy, nutrient, and water resource recovery from agriculture and aquaculture wastes. , 2020, , 343-362.		1
869	Hydrogen production facility location selection for Black Sea using entropy based TOPSIS under IVPF environment. International Journal of Hydrogen Energy, 2020, 45, 15855-15868.	7.1	46
870	Optimization of a Linear Fresnel Reflector Applying Computational Fluid Dynamics, Entropy Generation Rate and Evolutionary Programming. Renewable Energy, 2020, 152, 698-712.	8.9	16
871	RES Implementation in Urban Areas: An Updated Overview. Sustainability, 2020, 12, 382.	3.2	12
872	Sodium/Potassiumâ€lon Batteries: Boosting the Rate Capability and Cycle Life by Combining Morphology, Defect and Structure Engineering. Advanced Materials, 2020, 32, e1904320.	21.0	335
873	Modelling and control of multi-energy systems through Multi-Prosumer Node and Economic Model Predictive Control. International Journal of Electrical Power and Energy Systems, 2020, 118, 105778.	5 . 5	14
874	High latent heat and recyclable form-stable phase change materials prepared via a facile self-template method. Chemical Engineering Journal, 2020, 396, 125265.	12.7	24
875	IoT-Based Energy Monitoring and Controlling of an Optimum Inclination Angle of the Solar Panels. IETE Journal of Research, 2020, , 1-11.	2.6	6
876	A Holistic Framework for Supporting Maintenance and Asset Management Life Cycle Decisions for Power Systems. Energies, 2020, 13, 1937.	3.1	19

#	Article	IF	CITATIONS
877	Power-generating trees: Direct bioelectricity production from plants with microbial fuel cells. Applied Energy, 2020, 268, 115040.	10.1	31
878	Placement Optimization for Renewable Energy Sources: Ontology, Tools, and Wake Models. IEEE Access, 2020, 8, 72781-72800.	4.2	7
879	Ultrafine Mo ₂ C Nanoparticles Confined in 2D Meshlike Carbon Nanolayers for Effective Hydrogen Evolution. ChemCatChem, 2020, 12, 3195-3201.	3.7	18
880	A Comprehensive State-of-the-Art Survey on Hybrid Renewable Energy System Operations and Planning. IEEE Access, 2020, 8, 75313-75346.	4.2	50
881	Minimization of total harmonic distortions of cascaded H-bridge multilevel inverter by utilizing bio inspired AI algorithm. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	2.4	14
882	Power Plant Optimisation—Effective Use of the Nelder-Mead Approach. Processes, 2020, 8, 357.	2.8	14
883	Thermochemical characterisation of <i>Acacia auriculiformis</i> tree parts via proximate, ultimate, TGA, DTG, calorific value and FTIR spectroscopy analyses to evaluate their potential as a biofuel resource. Biofuels, 2021, 12, 9-20.	2.4	35
884	Smartâ€grid and solar energy harvesting in the IoT era: An overview. Concurrency Computation Practice and Experience, 2021, 33, e4896.	2.2	17
885	Multi-objective evolutionary optimization with genetic algorithm for the design of off-grid PV-wind-battery-diesel system. Soft Computing, 2021, 25, 3175-3194.	3.6	11
886	Non-causal Linear Optimal Control With Adaptive Sliding Mode Observer for Multi-Body Wave Energy Converters. IEEE Transactions on Sustainable Energy, 2021, 12, 568-577.	8.8	11
887	Enhancing ORR/OER active sites through lattice distortion of Fe-enriched FeNi3 intermetallic nanoparticles doped N-doped carbon for high-performance rechargeable Zn-air battery. Journal of Colloid and Interface Science, 2021, 582, 977-990.	9.4	99
888	High-performance bifunctional electrocatalyst for iron-chromium redox flow batteries. Chemical Engineering Journal, 2021, 421, 127855.	12.7	31
889	Vapor compression heat pumps with pure Low-GWP refrigerants. Renewable and Sustainable Energy Reviews, 2021, 138, 110571.	16.4	101
890	Targeting and scheduling of standalone renewable energy system with liquid organic hydrogen carrier as energy storage. Energy, 2021, 218, 119475.	8.8	37
891	Worldwide trends in energy market research. , 2021, , 277-292.		0
892	A new method for optimizing the preheating characteristics of storage tanks. Renewable Energy, 2021, 165, 25-36.	8.9	8
893	Technoâ€economic planning of local energy systems through optimization models: a survey of current methods. International Journal of Energy Research, 2021, 45, 4888-4931.	4.5	23
894	Suitability assessment of models in the industrial energy system design. Renewable and Sustainable Energy Reviews, 2021, 137, 110400.	16.4	7

#	Article	IF	CITATIONS
895	Hurricane Freshwater Flood Risk Assessment Model for Residential Buildings in Southeast US Coastal States Considering Climate Change. Natural Hazards Review, 2021, 22, .	1.5	3
896	Formate production from CO2 electroreduction in a salinity-gradient energy intensified microbial electrochemical system. Bioresource Technology, 2021, 320, 124292.	9.6	12
897	Community-scale rural energy systems: General planning algorithms and methods for developing countries., 2021,, 63-84.		0
899	ANN-Based Binary Backtracking Search Algorithm for VPP Optimal Scheduling and Cost-Effective Evaluation. IEEE Transactions on Industry Applications, 2021, 57, 5603-5613.	4.9	7
900	Multi Energy System With an Associated Energy Hub: A Review. IEEE Access, 2021, 9, 127753-127766.	4.2	31
901	Experimental Study on the Heating Effect of a Wind-Energy Stirring Heater. Journal of Thermal Science, 2021, 30, 772-781.	1.9	3
902	Optimum Sizing and Design of Renewable Energy System. , 2021, , 159-178.		0
904	A literature review on BIM for cities Distributed Renewable and Interactive Energy Systems. International Journal of Urban Sustainable Development, 2021, 13, 214-232.	2.0	11
905	Renewable energy: a bibliometric analysis. E3S Web of Conferences, 2021, 250, 03002.	0.5	40
906	Modern Trends in the Production of Renewable Energy: the Cost Benefit Approach. Mechanism of an Economic Regulation, 2021, , 6-17.	0.1	0
907	Microbial Mediated Valorization of Lignocellulose: A Green Technology for Bioethanol Production. Environmental and Microbial Biotechnology, 2021, , 53-71.	0.7	0
908	Identifiability Evaluation of Crucial Parameters for Grid Connected Photovoltaic Power Plants Design Optimization. IEEE Access, 2021, 9, 108754-108771.	4.2	11
909	Optimization of bridges with short gap streamlined twin-box decks considering structural, flutter and buffeting performance. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 208, 104316.	3.9	14
910	Worldwide Research Trends on Smart Homes. Power Systems, 2021, , 1-31.	0.5	0
911	Analysis of Smart Electricity Grid Framework Unified with Renewably Distributed Generation. Lecture Notes in Electrical Engineering, 2021, , 735-751.	0.4	3
912	Biological conversion of lignocellulosic waste in the renewable energy. , 2021, , 99-115.		0
913	Bio-electrochemical systems for sustainable energy production and environmental prospects., 2021,, 275-301.		2
914	Development of a Framework for Wind Turbine Design and Optimization. Modelling, 2021, 2, 105-128.	1.4	14

#	Article	IF	CITATIONS
915	Binding Se into nitrogenâ€doped porous carbon nanosheets for highâ€performance potassium storage. InformaÄnÃ-Materiály, 2021, 3, 421-431.	17.3	48
916	Unit commitment problem in renewable integrated environment with storage: A review. International Transactions on Electrical Energy Systems, 2021, 31, e12775.	1.9	6
917	ANN based binary backtracking search algorithm for virtual power plant scheduling and cost-effective evaluation. , 2021, , .		1
918	The design and optimization of concentrating solar system in Wuhan based on clear sky model. IOP Conference Series: Earth and Environmental Science, 2021, 692, 022051.	0.3	0
919	Design of tidal range energy generation schemes using a Genetic Algorithm model. Applied Energy, 2021, 286, 116506.	10.1	17
920	Energy research in Nigeria: A bibliometric analysis. Energy Strategy Reviews, 2021, 34, 100629.	7. 3	21
921	A Proposed Strategy to Solve the ‎Intermittency Problem in Renewable Energy Systems ‎Using A Hybrid Energy ‎Storage System. WSEAS Transactions on Power Systems, 2021, 16, 41-51.	0.4	7
922	Applications of artificial intelligenceâ€based modeling for bioenergy systems: A review. GCB Bioenergy, 2021, 13, 774-802.	5.6	62
923	Influence of the number of decision stages on multi-stage renewable generation expansion models. International Journal of Electrical Power and Energy Systems, 2021, 126, 106588.	5.5	6
924	Design and Performance Evaluation of Large Field of Flat Plate Solar Collectors Network for Industrial Application., 2021,,.		1
925	A taxonomy of energy optimization techniques for smart cities: Architecture and future directions. Expert Systems, 2022, 39, e12703.	4.5	17
927	A Review: Role of Energy Resources in Development of India. IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012045.	0.6	0
928	Simulation and Analysis of a Factory Building's Energy Consumption Using eQuest Software. Chemical Engineering and Technology, 2021, 44, 928-933.	1.5	5
929	Envisioning Building-as-Energy-Service in the European context. From a literature review to a conceptual framework. Architectural Engineering and Design Management, 2022, 18, 495-520.	1.7	4
930	A New Approach for Design Optimization and Parametric Analysis of Symmetric Compound Parabolic Concentrator for Photovoltaic Applications. Sustainability, 2021, 13, 4606.	3.2	17
931	Tuning Metal–Support Interactions on Ni/Al2O3 Catalysts to Improve Catalytic Activity and Stability for Dry Reforming of Methane. Processes, 2021, 9, 706.	2.8	38
932	2-D Convolutional Deep Neural Network for the Multivariate Prediction of Photovoltaic Time Series. Energies, 2021, 14, 2392.	3.1	11
933	A novel design and performance optimization methodology for hydraulic Cross-Flow turbines using successive numerical simulations. Renewable Energy, 2021, 169, 1402-1421.	8.9	9

#	Article	IF	CITATIONS
934	Artificial intelligence to support the integration of variable renewable energy sources to the power system. Applied Energy, 2021, 290, 116754.	10.1	63
935	Bi2MoO6 hierarchical microflowers for electrochemical oxygen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 18719-18728.	7.1	8
936	Selecting a Biomass Pelleting Processing Depot Using a Data Driven Decision-Making Approach. Systems, 2021, 9, 32.	2.3	3
937	Stimulation of natural enzymes for germination of mimosa weed seeds to enhanced bioethanol production. 3 Biotech, 2021, 11, 307.	2.2	10
938	Operational Planning of Energy for Non-Interconnected Zones: A Simulation-Optimization Approach and a Case Study to Tackle Energy Poverty in Colombia. Energies, 2021, 14, 2789.	3.1	3
939	Power quality event emulator using PSO algorithm. , 2021, , .		0
940	Sustainable energy development: History of the concept and emerging themes. Renewable and Sustainable Energy Reviews, 2021, 141, 110770.	16.4	88
941	Photocatalytic conversion of CO to fuels with water by B-doped graphene/g-C3N4 heterostructure. Science Bulletin, 2021, 66, 1186-1193.	9.0	19
942	Bibliometric analysis of renewable energy types using key performance indicators and multicriteria decision models. Renewable and Sustainable Energy Reviews, 2021, 143, 110958.	16.4	49
943	A-RESS new dynamic and smart system for renewable energy sharing problem. PeerJ Computer Science, 2021, 7, e610.	4.5	1
944	A critical review of state-of-the-art electrocoagulation technique applied to COD-rich industrial wastewaters. Environmental Science and Pollution Research, 2021, 28, 43143-43172.	5.3	58
945	Extending the Cyclability of Alkaline Zinc–Air Batteries: Synergistic Roles of Li ⁺ and K ⁺ lons in Electrodics. ACS Applied Materials & amp; Interfaces, 2021, 13, 33112-33122.	8.0	11
946	Impact of SOC Estimation on Primary Frequency Regulation for Sustainable Grid Energy Storage System. Lecture Notes in Mechanical Engineering, 2022, , 1067-1075.	0.4	0
947	Optimal Sizing and Energy Management of Microgrids with Vehicle-to-Grid Technology: A Critical Review and Future Trends. Energies, 2021, 14, 4166.	3.1	47
948	Thermal efficiency of flat plate thermosyphon solar water heater with nanofluids. Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 276-287.	5.3	21
949	Modeling and Formulation of Optimization Problems for Optimal Scheduling of Multi-Generation and Hybrid Energy Systems: Review and Recommendations. Electronics (Switzerland), 2021, 10, 1688.	3.1	10
950	Uncertainty Analysis of Reservoir Operation Based on Stochastic Optimization Approach Using the Generalized Likelihood Uncertainty Estimation Method. Water Resources Management, 2021, 35, 3179-3201.	3.9	12
951	(DA-DOPF): A Day-Ahead Dynamic Optimal Power Flow With Renewable Energy Integration in Smart Grids. Frontiers in Energy Research, 2021, 9, .	2.3	7

#	Article	IF	CITATIONS
952	Optimization of the Electrical Demand of an Existing Building with Storage Management through Machine Learning Techniques. Applied Sciences (Switzerland), 2021, 11, 7991.	2.5	5
953	Design of on-site energy conversion systems for manufacturing companies – A concept-centric research framework. Journal of Cleaner Production, 2021, 310, 127258.	9.3	5
954	Wells Turbine as a Power Take-Off Mechanism for Wave Energy Converters. Ocean Engineering & Oceanography, 2022, , 365-396.	0.2	0
955	Addressing the Effect of Social Acceptance on the Distribution of Wind Energy Plants and the Transmission Grid in Germany. Energies, 2021, 14, 4824.	3.1	3
956	OMEGAlpes, an Open-Source Optimisation Model Generation Tool to Support Energy Stakeholders at District Scale. Energies, 2021, 14, 5928.	3.1	7
957	A Comparative Study of Plasmonic Dye-Sensitized Solar Cells Utilizing Dielectric Shell Coated and Uncoated Au nanoparticles. IEEE Journal of Photovoltaics, 2021, 11, 1213-1221.	2.5	8
958	Relationship between construction parameters and thermal loads in a building without internal gains. Revista Facultad De Ingenier $\hat{A}a$, 0 , , .	0.5	0
959	Building energy optimization using Grey Wolf Optimizer (GWO). Case Studies in Thermal Engineering, 2021, 27, 101250.	5.7	65
960	A multi-objective optimisation approach to explore decarbonisation pathways in a dynamic policy context. Journal of Cleaner Production, 2021, 319, 128623.	9.3	7
961	A systematic diagnosis of state of the art in the use of electrocoagulation as a sustainable technology for pollutant treatment: An updated review. Sustainable Energy Technologies and Assessments, 2021, 47, 101353.	2.7	22
962	A critical review of fenestration/window system design methods for high performance buildings. Energy and Buildings, 2021, 248, 111184.	6.7	21
963	Comparison of power plant portfolios under the no energy mix target and national energy mix target using the mean–variance model. Energy Reports, 2021, 7, 4850-4861.	5.1	9
964	A modeler's guide to handle complexity in energy systems optimization. Advances in Applied Energy, 2021, 4, 100063.	13.2	63
965	Optimal generation expansion planning model of a combined thermal–wind–PV power system considering multiple boundary conditions: A case study in Xinjiang, China. Energy Reports, 2021, 7, 515-522.	5.1	16
966	Impact of renewable energy utilization and artificial intelligence in achieving sustainable development goals. Energy Reports, 2021, 7, 5359-5373.	5.1	62
967	Supply chain configuration of sustainable aviation fuel: Review, challenges, and pathways for including environmental and social benefits. Renewable and Sustainable Energy Reviews, 2021, 152, 111680.	16.4	23
968	Smart Grid Implementation of the Industrial Sector. , 2022, , 721-735.		0
969	Worldwide research trends on hydropower. , 2021, , 249-280.		2

#	Article	IF	Citations
971	Postface: Conclusion on Renewable Energy Strategies for a Sustainable Future: Part A: Role of Energy Storage., 2021,, 839-846.		2
972	Photovoltaic Plants Selection on an Insular Grid Using Multicriteria Outranking Tools: Application in Corsica Island (France). Green Energy and Technology, 2013, , 27-54.	0.6	2
973	A Viability Study of Renewables and Energy Storage Systems Using Multicriteria Decision Making and an Evolutionary Approach. Lecture Notes in Computer Science, 2019, , 655-668.	1.3	6
974	Optimisation Methods in Renewable Energy Sources Systemsâ€"Current Research Trends. Springer Proceedings in Energy, 2020, , 841-852.	0.3	2
975	Application of Evolutionary Multiobjective Algorithms for Solving the Problem of Energy Dispatch in Hydroelectric Power Plants. Lecture Notes in Computer Science, 2015, , 403-417.	1.3	5
976	Load Management Through Agent Based Coordination of Flexible Electricity Consumers. Lecture Notes in Computer Science, 2015, , 27-39.	1.3	4
977	Active Distribution Networks Operation Within a Distribution Market Environment., 2017,, 107-118.		2
979	On Solving the Profit Maximization of Small Cogeneration Systems. Lecture Notes in Computer Science, 2012, , 147-158.	1.3	5
980	Eco-process Engineering System for Collaborative Product Process System Optimisation. IFIP Advances in Information and Communication Technology, 2014, , 634-641.	0.7	2
981	Optimal Siting and Sizing of Wind Turbines Based on Genetic Algorithm and Optimal Power Flow. Green Energy and Technology, 2014, , 125-144.	0.6	2
982	Novel Smart Photocatalysis for Energy Production and Environment Applications., 2020,, 635-635.		1
983	A 24-hour thermoelectric generator simultaneous using solar heat energy and space cold energy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107038.	2.3	11
984	Numerical Analysis of Heat Transfer Performance of Flat Plate Solar Collectors. Journal of Fluid Flow, Heat and Mass Transfer, 0 , , .	0.0	16
985	Offshore Wind Farm Layout Optimization via Differential Evolution. Computacion Y Sistemas, 2018, 22,	0.3	1
986	Bioenergy knowledge, perceptions, and attitudes among young citizens – from cross-national surveys to conceptual model. Dissertationes Forestales, 2011, 2011, .	0.1	4
987	Possibilities of Satisfying the Energy Needs of Rural Community Residents with Renewable Energy Sources – the Case of Poland. Acta Regionalia Et Environmentalica, 2017, 14, 59-63.	0.1	2
988	Diazo-pyrazole analogues as photosensitizers in dye sensitised solar cells: tuning for a better photovoltaic efficiency using a new modelling strategy using experimental and computational data. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1227-1245.	2.8	11
989	ISSUES AND CHALLENGES WITH RENEWABLE ENERGY IN OMAN. International Journal of Research in Engineering and Technology, 2013, 02, 212-219.	0.1	10

#	Article	IF	CITATIONS
990	A REVIEW OF TECHNIQUES IN OPTIMAL SIZING OF HYBRID RENEWABLE ENERGY SYSTEMS. International Journal of Research in Engineering and Technology, 2015, 04, 153-163.	0.1	15
991	Implications of biofuel production in the Western Cape province, South Africa: A system dynamics modelling approach of South Africa: A system dynamics modelling approach. Journal of Energy in Southern Africa, 2017, 28, 1.	0.8	10
992	Una revisi \tilde{A}^3 n a la reglamentaci \tilde{A}^3 n e incentivos de las energ \tilde{A} as renovables en Colombia. Revista Facultad De Ciencias Econ \tilde{A}^3 micas, 2012, 20, 55-67.	0.3	5
993	Review of Optimization Techniques for Sizing Renewable Energy Systems. Computer Engineering and Applications Journal, 2019, 8, 13-30.	0.2	9
994	Efficiency of liquid flat-plate solar energy collector with solar tracking system. Thermal Science, 2015, 19, 1673-1684.	1.1	7
995	Campus and community micro grids integration of building integrated photovoltaic renewable energy sources: Case study of Split 3 area, Croatia - part A. Thermal Science, 2016, 20, 1135-1145.	1.1	5
996	Rural electrification based on renewable energies. A Review. Renewable Energy and Power Quality Journal, 0, , 497-502.	0.2	5
997	Optimal Configuration of Distributed Generation on Jeju Island Power Grid Using Genetic Algorithm: A Case Study. Journal of Communications Software and Systems, 2017, 10, 135.	0.8	3
999	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. European Journal of Sustainable Development Research, 2020, 4, em0138.	0.9	9
1000	Numerical Simulation on Thermal Performance of Flat Plate Solar Collector with Double Glass Covers. Journal of Applied Sciences, 2017, 17, 502-510.	0.3	7
1001	Classification of Failures in Photovoltaic Systems using Data Mining Techniques. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 300-319.	0.4	2
1002	Forecasting of Electricity Demand by Hybrid ANN-PSO Models. , 2020, , 865-882.		8
1003	Smart Grid Implementation of the Industrial Sector. International Journal of Energy Optimization and Engineering, 2019, 8, 1-14.	0.6	4
1004	A Summary of Optimal Methods for the Planning of Stand-alone Microgrid System. Energy and Power Engineering, 2013, 05, 992-998.	0.8	7
1005	Study on a Comprehensive Energy-Saving Sail by CFD Method. Open Journal of Fluid Dynamics, 2016, 06, 145-155.	0.5	1
1006	A Comparative Study for Optimum Design of Grid Connected PV System based on Actual System Specifications. International Journal of Computer Applications, 2015, 116, 19-34.	0.2	3
1007	Research on Wind Energy Investment Decision Making: A Case Study in Jilin. International Journal of Fuzzy Logic Systems, 2017, 7, 01-13.	0.2	1
1008	PV POWER PLANTS SITES SELECTION USING GIS-FAHP BASED APPROACH IN NORTH-WESTERN MOROCCO. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W19, 385-392.	0.2	3

#	ARTICLE	IF	CITATIONS
1009	Assessing the potential of solar energy in pressurized irrigation networks. The case of Bembézar MI irrigation district (Spain). Spanish Journal of Agricultural Research, 2014, 12, 838.	0.6	17
1010	The possibilities for using wind energy in AP Vojvodina (North Serbia): Defining the most favorable areas for the construction of windmill farms: A review. Geographica Pannonica, 2016, 20, 42-50.	1.3	13
1011	An Analytical Optimization Model for Holistic Multiobjective District Energy Management - A Case Study Approach. International Journal of Modeling and Optimization, 2016, 6, 156-165.	0.4	3
1012	Priority Decision for Energy Selection Using Fuzzy TOPSIS. New & Renewable Energy, 2017, 13, 73-84.	0.4	3
1013	Prediction of Transportation Energy Demand by Novel Hybrid Meta-Heuristic ANN. SSRN Electronic Journal, 0, , .	0.4	0
1014	High Overload Power Supply System and Its Energy Synchronization Control Method for Short-Term High-Energy Pulse Load. IEEE Transactions on Smart Grid, 2022, 13, 849-860.	9.0	2
1015	Changes in Electricity Production from Renewable Energy Sources in the European Union Countries in 2005–2019. Energies, 2021, 14, 6276.	3.1	19
1016	Design and simulation of heat sink for exhaust heat recovery system using thermoelectric generator. Journal of Physics: Conference Series, 2021, 2054, 012037.	0.4	0
1017	Attitude and Acceptance of Offshore Wind Farms $\hat{a}\in$ The Influence of Travel Time and Wind Farm Attributes. SSRN Electronic Journal, 0, , .	0.4	0
1018	Development of a Sustainable System Emulator for Sustainable Environment Design. , 2012, , 863-867.		0
1019	Fuzzy PROMETHEE for the Environmental Quality Assessment of Energy Dedicated Crops. Atlantis Computational Intelligence Systems, 2012, , 231-250.	0.5	2
1020	Resource Efficient Applications through Design and Optimization of High Performance Heat Pump Based Hybrid Renewable Energy Systems in Ireland's Cool Marine Climate. International Journal of Sustainable Energy Development, 2013, 2, 63-74.	0.4	0
1021	Data File of the Building Site's Renewable Energy Characteristics. Springer Proceedings in Physics, 2014, , 405-410.	0.2	0
1022	Control Systems in Hybrid Energy Renewable Power Systems: Reviews. Engineer: Journal of the Institution of Engineers, Sri Lanka, 2015, 47, 1.	0.2	1
1023	Model Predictive Control and Generalized Adaptative PID for Load Sharing In Systems of Multiple Sources of Energy. International Journal of Advanced Research in Computer and Communication Engineering, 2015, 4, 307-312.	0.2	2
1024	Classification of Failures in Photovoltaic Systems using Data Mining Techniques. , 2016, , 1347-1366.		0
1025	Investorss Perspectives on Barriers to Renewables Deployment in Chile. SSRN Electronic Journal, 0, , .	0.4	0
1026	Optimising the use of a battery in a wind-diesel-battery hybrid island grid using power prediction and day-ahead optimisation. Renewable Energy and Power Quality Journal, 0, , 714-719.	0.2	0

#	Article	lF	CITATIONS
1027	An Accurate and Efficient Analytical Method to Extract the Parameters of the Single and Double Diode Photovoltaic Cells Models. Advances in Wireless Technologies and Telecommunication Book Series, 2017, , 615-646.	0.4	0
1028	An Accurate and Efficient Analytical Method to Extract the Parameters of the Single and Double Diode Photovoltaic Cells Models., 2017, , 1549-1580.		0
1029	A Hybrid Multi-Criteria Analysis Approach for the Assessment of Renewable Energy Resources Under Uncertainty. Alphanumeric Journal, 0, , .	0.7	1
1030	A product service system design for energy provision. International Journal of Management and Enterprise Development, 2018, 17, 244.	0.3	1
1031	Multicriteria Approach for a Multisource District Heating. Green Energy and Technology, 2018, , 21-33.	0.6	2
1032	A perspective on the potential role of renewable energy for sustainable development on a local scale. Economic and Environmental Studies, 2018, 18, 431-443.	0.2	2
1033	BİYODİZEL YAKITLAR İÇİN ÇOK DÖNEMLİ TEDARİK ZİNCİRİ AĞ TASARIMI: TÜRKİYE ÖRNE Bilimleri Dergisi, 2018, 6, 862-876.	Ğİ. Gazi 0.6	Üniversite:
1034	BİYODİZEL TEDARİK ZİNCİRİ AÄž TASARIMI ݇İN ‡OK AMAÇLI KARMA TAM SAYILI DOÄžRUSAL P ÖNERİSİ. Uludağ University Journal of the Faculty of Engineering, 2018, 23, 55-70.	ROGRAML	АМА MOD <mark>EL</mark>
1036	Application of Genetic Algorithms forÂDesigning Micro-Hydro Power Plants in Rural Isolated Areas—A Case Study in San Miguelito, Honduras. Studies in Computational Intelligence, 2020, , 169-200.	0.9	0
1037	Cannabis, the Plant of the Unlimited Possibilities. Advances in Research, 0, , 1-22.	0.3	2
1038	Preparation and Properties of Nanocomposites for Energy Applications. , 2019, , 3-41.		0
1039	Experimental investigation of an alternative wind energy generator, particularly designed. Revista Facultad De IngenierÃa, 0, , .	0.5	1
1040	Strategies for reducing the costs of clean-energy technologies in buildings in Nigeria. Clean Energy, 2020, 4, 349-359.	3.2	0
1041	Use of the multicriteria analysis methods to optimize sustainable energy systems based on renewable sources. Journal-urban-rural and Regional Economy, 0, , 15-29.	0.0	0
1042	Hybrid Renewable Energy System for Real-Time Power Management Techniques - a Review., 2020,,.		3
1043	A Text Mining Approach in Patents and Papers: Analyzing Wind and Solar Energy Trends. International Journal of Computer Applications, 2020, 175, 1-12.	0.2	0
1044	Assessment of two optimisation methods for renewable energy capacity expansion planning. Applied Energy, 2022, 306, 117988.	10.1	5
1045	Determination of loads and boundary conditions causing deformations of concentrating solar mirrors using non-derivative optimization methods and finite element analysis. AIP Conference Proceedings, 2020, , .	0.4	0

#	Article	IF	CITATIONS
1046	Renewable energy investment prospects in Turkey's power generation sector. International Journal of Renewable Energy Technology, 2020, 11 , 1 .	0.3	0
1048	Indium-Free Alternative Transparent Conducting Electrodes: An Overview and Recent Developments. Environmental Chemistry for A Sustainable World, 2021, , 149-183.	0.5	3
1049	Optimal selection of energy storage nodes based on improved cumulative prospect theory in China. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	6
1051	Beton Ağırlıklı Barajların Simbiyotik Arama Algoritması ile Optimizasyonu. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020, 9, 1734-1744.	0.5	3
1052	Coordinated Optimization of Integrated Energy System Considering Demand Response and Energy Storage. , 2020, , .		1
1053	A Meta-heuristic Optimization Algorithm for Solving Renewable Energy System. Advances in Intelligent Systems and Computing, 2021, , 449-459.	0.6	О
1054	Analytical modeling and parameter estimation of photovoltaic strings under partial shading conditions. Solar Energy Materials and Solar Cells, 2022, 235, 111494.	6.2	10
1055	Impact of functional groups on the electrocatalytic hydrogenation of aromatic carbonyls to alcohols. Catalysis Today, 2022, 397-399, 63-68.	4.4	5
1056	Building's heat potential on resources in respect to CO ₂ emissions and primary energy reduction (Case study). IOP Conference Series: Materials Science and Engineering, 2021, 1203, 022139.	0.6	3
1057	Sizing approaches for solar photovoltaicâ€based microgrids: A comprehensive review. IET Energy Systems Integration, 2022, 4, 1-27.	1.8	12
1058	Budget-cut: introduction to a budget based cutting-plane algorithm for capacity expansion models. Optimization Letters, 0 , 1 .	1.6	0
1059	Kinematics approach to energy efficiency for non-holonomic underactuated robotics in sustainable manufacturing. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	1
1060	Treatment of poultry slaughterhouse wastewater using electrocoagulation: a review. Water Practice and Technology, 2022, 17, 38-59.	2.0	16
1061	Additively manufactured nano-mechanical energy harvesting systems: advancements, potential applications, challenges and future perspectives. Nano Convergence, 2021, 8, 37.	12.1	32
1062	Simulation analysis of a single well geothermal system with open-loop structure. Geothermics, 2022, 100, 102338.	3.4	2
1063	Dry reforming of methane on Ni(1 1 1) surface with different Mo doping ratio: DFT-assisted microkinetic study. Applied Surface Science, 2022, 581, 152310.	6.1	20
1064	Econo- Environmental Dispatch Solutions for Power Systems Integrated with Renewable Energy Resources. , 2020, , .		0
1065	Multi-timescale Active Distribution Network Scheduling Considering Demand-Side Response and User Comprehensive Satisfaction., 2020,,.		О

#	Article	IF	CITATIONS
1066	Electrochemical Properties of Biobased Carbon Aerogels Decorated with Graphene Dots Synthesized from Biochar. ACS Applied Electronic Materials, 2021, 3, 4699-4710.	4.3	9
1067	Efficient Stochastic Model for Operational Availability Optimization of Cooling Tower Using Metaheuristic Algorithms. IEEE Access, 2022, 10, 24659-24677.	4.2	34
1068	Performance analysis of nanofluid based direct absorption solar collector of different configurations: A two-phase CFD modeling. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0 , , 1 - 16 .	2.3	4
1069	Potential Electricity Production by Installing Photovoltaic Systems on the Rooftops of Residential Buildings in Jordan: An Approach to Climate Change Mitigation. Energies, 2022, 15, 496.	3.1	21
1072	Surrogate-based stochastic optimization of horizontal-axis wind turbine composite blades. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	10
1073	Exploring distributed energy generation for sustainable development: A data mining approach. Journal of Energy Storage, 2022, 48, 104018.	8.1	14
1074	A multifaceted evaluation of hybrid energy policies: The case of sustainable alternatives in special Economic Zones of the China Pakistan Economic Corridor (CPEC). Sustainable Energy Technologies and Assessments, 2022, 52, 101958.	2.7	10
1075	Artificial intelligence for sustainable energy: A contextual topic modeling and content analysis. Sustainable Computing: Informatics and Systems, 2022, 35, 100699.	2.2	16
1077	Optimization of Biodiesel Production from Waste Cooking Oil by Box Behnken Design Using Response Surface Methodology., 2021,,.		0
1080	A review of techniques to improve performance of metal organic framework (MOF) based mixed matrix membranes for CO2/CH4 separation. Reviews in Environmental Science and Biotechnology, 2022, 21, 539-569.	8.1	18
1081	Optimal configuration of diesel-storage micro-grid vehicle considering PV uncertainty., 2022,,.		0
1082	Bibliographic Coupling Links: Alternative Approaches to Carrying Out Systematic Reviews about Renewable and Sustainable Energy. Environments - MDPI, 2022, 9, 28.	3.3	9
1083	From fossil-dependent energy to a clean, non-polluting energy: Wind farms in Maluti-A-Phofung municipality, South Africa. Development Southern Africa, 2022, 39, 973-989.	2.0	1
1084	Multi-objective optimization tool for PATs operation in water pressurized systems. Urban Water Journal, 2022, 19, 558-568.	2.1	5
1085	White-Model Predictive Control for Balancing Energy Savings and Thermal Comfort. Energies, 2022, 15, 2345.	3.1	6
1086	Amorphous CoFeB on nickel foam as a high efficient electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 12539-12546.	7.1	12
1087	Hybrid Meta-Heuristic Algorithms for Optimal Sizing of Hybrid Renewable Energy System: A Review of the State-of-the-Art. Archives of Computational Methods in Engineering, 2022, 29, 4049-4083.	10.2	24
1088	The relationship between socioeconomic development, renewable energies and the innovative process. International Journal of Energy Sector Management, 2022, 16, 1037-1063.	2.3	4

#	Article	IF	CITATIONS
1089	Optimizing PV Microgrid Isolated Electrification Projectsâ€"A Case Study in Ecuador. Mathematics, 2022, 10, 1226.	2.2	6
1090	Solvent Etching Process for Graphitic Carbon Nitride Photocatalysts Containing Platinum Cocatalyst: Effects of Water Hydrolysis on Photocatalytic Properties and Hydrogen Evolution Behaviors. Nanomaterials, 2022, 12, 1188.	4.1	5
1091	Multi-objective optimization of energy-water nexus from spatial resource reallocation perspective in China. Applied Energy, 2022, 314, 118919.	10.1	14
1092	Prediction of transportation energy demand by novel hybrid meta-heuristic ANN. Energy, 2022, 249, 123735.	8.8	22
1093	Energy production from leather solid wastes by anaerobic digestion: A critical review. Renewable and Sustainable Energy Reviews, 2022, 161, 112378.	16.4	27
1094	Evaluating the Marginal Utility of Two-Stage Hydropower Scheduling. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	3
1095	Advanced thermochemical conversion technologies used for energy generation: Advancement and prospects. Fuel, 2022, 321, 124107.	6.4	27
1096	Application of Grey Wolf Optimization for PMSG-Based WECS under Different Operating Conditions: Performance Assessment., 2021,,.		8
1097	Design and simulation analysis of high-temperature heat-storage combined-circulation system. Clean Energy, 2022, 6, 841-852.	3.2	1
1098	Optimal Scheduling of Virtual Power Plants Utilizing Wind Power and Electric Vehicles. , 2021, , .		7
1099	Design and Optimization of the Micro-Hydro Power System for Remote Areas of Pakistan., 0,,.		2
1100	Application of Artificial Intelligence in the Unit Commitment System in the Application of Energy Sustainability. Energies, 2022, 15, 2981.	3.1	1
1101	Sustainable power systems operations under renewable energy induced disjunctive uncertainties via machine learning-based robust optimization. Renewable and Sustainable Energy Reviews, 2022, 161, 112428.	16.4	32
1102	A review on renewable energy potentials and energy usage statistics in Ghana. Fuel Communications, 2022, 11, 100065.	5.2	8
1105	Machine Learning Techniques for Renewable Energy Forecasting: A Comprehensive Review. Green Energy and Technology, 2022, , 3-39.	0.6	1
1106	Realising the Potential of Renewable Energy as a Tool for Energy Security in Small Island Developing States. Sustainability, 2022, 14, 4965.	3.2	19
1107	<scp>Semiâ€empirical</scp> development of a novel and versatile <scp>multiobjective</scp> optimization tool for co/trigeneration energy system design. International Journal of Energy Research, 2022, 46, 12623-12641.	4. 5	8
1108	Design and optimization of linear Fresnel reflector concentrating solar system using particle swarm optimization algorithms. Materials Today: Proceedings, 2022, , .	1.8	0

#	Article	IF	CITATIONS
1109	Linking SDG 7 to assess the renewable energy footprint of nations by 2030. Applied Energy, 2022, 317, 119167.	10.1	42
1110	Optimal Bio Marine Fuel production evolutionary Computation: Genetic algorithm approach for raw materials mixtures. Fuel, 2022, 323, 124232.	6.4	7
1111	Opciones reales como modelo estrat \tilde{A} ©gico para la evaluaci \tilde{A} 3n de la incorporaci \tilde{A} 3n de las energ \tilde{A} as renovables en la canasta energ \tilde{A} ©tica tradicional. , 0, , 113-132.		0
1112	Heat transfer performance of deep borehole heat exchanger with different operation modes. Renewable Energy, 2022, 193, 645-656.	8.9	24
1113	A review of behind-the-meter energy storage systems in smart grids. Renewable and Sustainable Energy Reviews, 2022, 164, 112573.	16.4	39
1114	Optimum Design of Biomass Gasifier Integrated Hybrid Energy Systems. , 2015, , .		2
1115	Analysis of Mesh Distribution Systems with Multiple Wind Turbine and Multiple D-STATCOM Allocation Using Artificial Bee Colony Algorithm. Engergy Systems in Electrical Engineering, 2022, , 879-904.	0.7	3
1116	Quantum computing and quantum artificial intelligence for renewable and sustainable energy: A emerging prospect towards climate neutrality. Renewable and Sustainable Energy Reviews, 2022, 165, 112493.	16.4	26
1117	Optical and thermal performance simulation of a micro-mirror solar collector. Energy Reports, 2022, 8, 6624-6632.	5.1	6
1118	Wind Energy Resource Prediction and Optimal Storage Sizing to Guarantee Dispatchability: A Case Study in the Kenyan Power Grid. Journal of Electrical and Computer Engineering, 2022, 2022, 1-25.	0.9	3
1119	Superlative photoelectrochemical properties of 3D MgCr-LDH nanoparticles influencing towards photoinduced water splitting reactions. Scientific Reports, 2022, 12, .	3.3	23
1120	Investment and Production Strategies of Renewable Energy Power under the Quota and Green Power Certificate System. Energies, 2022, 15, 4110.	3.1	4
1121	Modeling of large-scale integration of agrivoltaic systems: Impact on the Japanese power grid. Journal of Cleaner Production, 2022, 363, 132545.	9.3	12
1123	Modelling approaches to renewable energy sources for rural energy systems in India: a review and case study. International Journal of Ambient Energy, 2022, 43, 7860-7873.	2.5	1
1124	Energy harvesting from flexion motion using a flexible piezoelectric ring. Sensors and Actuators A: Physical, 2022, 343, 113664.	4.1	1
1125	Recent research progress of redox flow batteries based on deep eutectic solvents (DESs). International Journal of Green Energy, 0, , 1-11.	3.8	5
1126	Review on recent optimization strategies for hybrid renewable energy system with hydrogen technologies: State of the art, trends and future directions. International Journal of Hydrogen Energy, 2022, 47, 25155-25201.	7.1	77
1127	The Effects of Soiling and Frequency of Optimal Cleaning of PV Panels in Palestine. Energies, 2022, 15, 4232.	3.1	10

#	Article	IF	CITATIONS
1128	Synthesis of renewable carbon biorefinery products from susceptor enhanced microwave-assisted pyrolysis of agro-residual waste: A review. Chemical Engineering Research and Design, 2022, 164, 354-372.	5.6	17
1129	Comparing classical and metaheuristic methods to optimize multi-objective operation planning of district energy systems considering uncertainties. Applied Energy, 2022, 321, 119400.	10.1	13
1130	Dynamic Optimization of onâ€Grid Integrated Energy System Considering Peakâ€Shaving Demand Via Learning Methods. IEEJ Transactions on Electrical and Electronic Engineering, 0, , .	1.4	1
1131	Mandatory Policy, Innovations and the Renewable Energy Debate: A Case Study on Building Integrated Photovoltaics. Buildings, 2022, 12, 931.	3.1	6
1132	Electrocatalytic Selfâ€Supportedâ€Electrode Based on Co <i>>_×</i> Ni _{1â€} <i>_×</i> Enhancing pHâ€Universal Hydrogen Evolution Electrocatalysis. Advanced Sustainable Systems, 2022, 6, .	5.3	2
1133	Pulsed electrolysis of carbon dioxide by largeâ€scale solid oxide electrolytic cells for intermittent renewable energy storage. , 2023, 5, .		10
1134	A state of art review on applications of multi-objective evolutionary algorithms in chemicals production reactors. Artificial Intelligence Review, 2023, 56, 2435-2496.	15.7	6
1135	Current status and future prospects of renewable and sustainable energy in North America: Progress and challenges. Energy Conversion and Management, 2022, 269, 115945.	9.2	53
1136	A comprehensive study of renewable energy sources: Classifications, challenges and suggestions. Energy Strategy Reviews, 2022, 43, 100939.	7.3	123
1137	Quasi-oppositional Forensic-Based Investigation for Optimal DG Selection for Power Loss Minimization. Process Integration and Optimization for Sustainability, 2023, 7, 73-106.	2.6	2
1138	Estimating smart energy inputs packages using hybrid optimisation technique to mitigate environmental emissions of commercial fish farms. Applied Energy, 2022, 326, 119602.	10.1	63
1139	Ultrasonically assisted preparation of molybdenum sulfide/graphitic carbon nitride nanohybrid as counter electrode material for dye-sensitized solar cell. Journal of Alloys and Compounds, 2022, 929, 167220.	5.5	4
1140	A Comparative Study on System Profit Maximization of a Renewable Combined Deregulated Power System. Electronics (Switzerland), 2022, 11, 2857.	3.1	11
1141	Electrification and performance analysis of hybrid PV solar/wind energy system for remote and hilly area of Uttarakhand (India). Materials Today: Proceedings, 2022, , .	1.8	2
1142	Time series aggregation for energy system design: review and extension of modelling seasonal storages. Energy Informatics, 2022, 5, .	2.3	1
1143	A Comparative Review on Energy Storage Systems and Their Application in Deregulated Systems. Batteries, 2022, 8, 124.	4.5	33
1144	Solar Energy Utilization Techniques, Policies, Potentials, Progresses, Challenges and Recommendations in ASEAN Countries. Sustainability, 2022, 14, 11193.	3.2	10
1145	Deep Learning-Based Smart Hybrid Solar Water Heater Erection Model to Extract Maximum Energy. International Journal of Photoenergy, 2022, 2022, 1-8.	2.5	5

#	Article	IF	CITATIONS
1146	Numerical study on seasonal operation of solar assisted hybrid borehole heat exchange array. Energy and Buildings, 2022, 276, 112487.	6.7	3
1147	Green Buildings as a Necessity for Sustainable Environment Development: Dilemmas and Challenges. Sustainability, 2022, 14, 13121.	3.2	25
1148	Improved Whale Algorithm for Economic Load Dispatch Problem in Hydropower Plants and Comprehensive Performance Evaluation. Water Resources Management, 2022, 36, 5823-5838.	3.9	3
1149	Energy Management Systems Using Smart Grids: An Exhaustive Parametric Comprehensive Analysis of Existing Trends, Significance, Opportunities, and Challenges. International Transactions on Electrical Energy Systems, 2022, 2022, 1-38.	1.9	13
1150	Agronomic and Economic Aspects of Biodiesel Production from Oilseeds: A Case Study in Russia, Middle Volga Region. Agriculture (Switzerland), 2022, 12, 1734.	3.1	8
1151	Technical, Economic, and Intelligent Optimization for the Optimal Sizing of a Hybrid Renewable Energy System with a Multi Storage System on Remote Island in Tunisia. Electronics (Switzerland), 2022, 11, 3261.	3.1	3
1152	Dispatch optimization of a concentrating solar power system under uncertain solar irradiance and energy prices. Applied Energy, 2022, 326, 119978.	10.1	9
1153	Thermo-mechanical analysis of a porous volumetric solar receiver subjected to concentrated solar radiation. Solar Energy, 2022, 247, 41-54.	6.1	10
1154	The effect of spatial granularity on optimal renewable energy portfolios in an integrated climate-energy assessment model. Sustainable Energy Technologies and Assessments, 2022, 54, 102827.	2.7	1
1155	Selecting suitable wave energy technology for sustainable development, an MCDM approach. Renewable Energy, 2023, 202, 756-772.	8.9	21
1156	Diverse cloud and aerosol impacts on solar photovoltaic potential in southern China and northern India. Scientific Reports, 2022, 12, .	3.3	2
1157	The installation of residential photovoltaic systems: Impact of energy consumption behaviour. Sustainable Energy Technologies and Assessments, 2022, 54, 102870.	2.7	3
1158	Digital Twin and Artificial Intelligence Incorporated with Surrogate Modeling for Hybrid and Sustainable Energy Systems., 2022,, 1-23.		7
1159	Progress and challenges of Prussian blue analogs for potassium-ion batteries: a perspective on redox-active transition metals. Journal of Materials Chemistry A, 2023, 11, 1532-1550.	10.3	10
1160	Multi objective optimization of detailed building models with Typical Short Sequences considering sequential and adaptive methods. Engineering Applications of Artificial Intelligence, 2023, 118, 105645.	8.1	1
1161	Optimal Location and Sizing of Distributed Generators and Energy Storage Systems in Microgrids: A Review. Energies, 2023, 16, 106.	3.1	10
1162	Artificial intelligence driven hydrogen and battery technologies – A review. Fuel, 2023, 337, 126862.	6.4	11
1163	A comparative study of LCPV by mirror reflection against other systems: Recent techniques, implications, and performances. Solar Energy, 2023, 250, 70-90.	6.1	5

#	Article	IF	CITATIONS
1164	Recent Advances in Electrochemical, Photochemical, and Photoelectrochemical Reduction of $CO < sub > 2 < / sub > to C < sub > 2 + < / sub > Products. Small, 2023, 19, .$	10.0	30
1166	Remarkable reactivity of Fe modified Cu(100) surface towards CO2 decomposition: A DFT study. Materials Today Communications, 2023, 34, 105395.	1.9	3
1167	Optimized Artificial Neural Network-Based Control Strategy For Boost Converters. , 2022, , .		1
1168	Designing an Energy Managing System for Distributed Dispersion in Smart Microgrids Based on Environmental Constraints., 2022,,.		0
1169	Overview of US patents for energy management of renewable energy systems with hydrogen. International Journal of Hydrogen Energy, 2023, 48, 9574-9591.	7.1	10
1170	Review: Analysis of superstructures for hydrogen supply chain modeling. , 2023, , 165-181.		1
1171	Renewable Energy Predictions: Worldwide Research Trends and Future Perspective. Lecture Notes in Electrical Engineering, 2023 , , $93-110$.	0.4	1
1172	Simulation and economic analysis of the high-temperature heat storage system of thermal power plants oriented to the smart grid. Frontiers in Energy Research, 0, 10, .	2.3	1
1173	Overheating analysis of optimized nearly Zero-Energy dwelling during current and future heatwaves coincided with cooling system outage. Energy and Buildings, 2023, 287, 112998.	6.7	8
1174	Opportunities and economic assessment for a third-party delivering electricity, heat and cold to residential buildings. Energy, 2023, 272, 127019.	8.8	0
1175	Data-driven green energy extraction: Machine learning-based MPPT control with efficient fault detection method for the hybrid PV-TEG system. Energy Reports, 2023, 9, 3604-3623.	5.1	14
1176	Robust metamodel-based simulation-optimization approaches for designing hybrid renewable energy systems. Applied Energy, 2023, 341, 121132.	10.1	4
1177	Evaluating the Performance of various Algorithms for Wind Energy Optimization: A Hybrid Decision-Making model. Expert Systems With Applications, 2023, 221, 119731.	7.6	24
1178	Modeling, Automated Simulation, andÂOptimization. Springer Theses, 2022, , 69-142.	0.1	0
1179	Quantum computing for future real-time building HVAC controls. Applied Energy, 2023, 334, 120621.	10.1	6
1180	Synergistic effect of electrode defect regulation and Bi catalyst deposition on the performance of iron–chromium redox flow battery. Chinese Chemical Letters, 2023, 34, 108188.	9.0	7
1181	Emerging information and communication technologies for smart energy systems and renewable transition. Advances in Applied Energy, 2023, 9, 100125.	13.2	26
1182	Adsorption and diffusion of potassium on layered SnO: a DFT analysis. Journal of Materials Science, 2023, 58, 3208-3218.	3.7	5

#	ARTICLE	IF	CITATIONS
1183	Development of water re-allocation policy under uncertainty conditions in the inflow to reservoir and demands parameters: a case study of Karaj AmirKabir dam. Soft Computing, 2023, 27, 6521-6547.	3.6	1
1184	Self-Sustainability Assessment for a High Building Based on Linear Programming and Computational Fluid Dynamics. Algorithms, 2023, 16, 107.	2.1	1
1185	Methodology Presentation for the Configuration Optimization of Hybrid Electrical Energy Systems. Energies, 2023, 16, 2158.	3.1	1
1186	Application of nanocomposites in fuel cell. , 2023, , 129-147.		1
1187	Negative surface charge-mediated Fe Quantum dots with N-doped graphene/Ti3C2Tx MXene as chlorine-resistance electrocatalysts for high performance seawater-based Al-air batteries. Journal of Power Sources, 2023, 566, 232923.	7.8	4
1188	Optimization Studies on the Changeable Components of Hydroelectric Power Plants. , 2023, 18, 97-112.		0
1189	Synthesis and electrochemical performance of ultrafine hierarchical S-doped MnNi LDH-MWCNTs as highly efficient hybrid cathode for flexible asymmetric supercapacitors. Journal of Porous Materials, 0, , .	2.6	1
1190	Accelerating Optimal Control Strategy Generation for HVAC Systems Using a Scenario Reduction Method: A Case Study. Energies, 2023, 16, 2988.	3.1	2
1191	Magnetic Peroxidase Nanozyme Gears Up for Microplastic Removal and Deconstruction. Chemistry Methods, 2023, 3, .	3.8	1
1192	Two-step approach for quasi-optimization of energy storage and transportation at renewable energy site. Renewable Energy, 2023, 211, 846-858.	8.9	2
1193	Kuzey Batı Anadolu Güç Sisteminde Yenilenebilir Enerji Kaynaklarının Optimal Boyutlandırılması ve Yerleşimi. Düzce Üniversitesi Bilim Ve Teknoloji Dergisi, 0, , .	0.7	O
1194	Strategic Electricity Production Planning of Turkey via Mixed Integer Programming Based on Time Series Forecasting. Mathematics, 2023, 11, 1865.	2.2	1
1195	Virtual Power Plant with Renewable Energy Sources and Energy Storage Systems for Sustainable Power Grid-Formation, Control Techniques and Demand Response. Energies, 2023, 16, 3705.	3.1	14
1196	Boosting the electrocatalytic activity of lanthanum cobaltite ceramic through Zn doping for the oxygen evolution reaction. Ceramics International, 2023, 49, 25405-25413.	4.8	2
1197	An efficient P2P energy trading platform based on evolutionary games for prosumers in a community. Sustainable Energy, Grids and Networks, 2023, 34, 101074.	3.9	2
1198	Statistical Analysis of Integration of renewable DGs in IEEE-9 Bus System using ETAP Simulation. , 2023, , .		O
1199	A field test of medium-depth geothermal heat pump system for heating in severely cold region. Case Studies in Thermal Engineering, 2023, 48, 103125.	5.7	5
1200	Optimal configuration of a large scale on-grid renewable energy systems with different design strategies. Journal of Cleaner Production, 2023, 414, 137572.	9.3	4

#	Article	IF	CITATIONS
1202	Evolutionary Gaussian-Gradient: A New Optimization Algorithm for the Electromechanical Design of Gravitational Batteries. Studies in Computational Intelligence, 2023, , 347-364.	0.9	0
1204	Existing Stature and Possible Outlook of Renewable Power in Comprehensive Electricity Market. Processes, 2023, 11, 1849.	2.8	1
1205	Configuration optimization of energy storage and economic improvement for household photovoltaic system considering multiple scenarios. Journal of Energy Storage, 2023, 67, 107631.	8.1	5
1206	Guide for the development and evaluation of supercapacitors with the proposal of a novel design to improve their performance. Journal of Energy Storage, 2023, 68, 107816.	8.1	7
1207	Drivers and challenges of off-grid renewable energy-based projects in West Africa: A review. Heliyon, 2023, 9, e16710.	3.2	5
1208	The identification and classification of energy waste for efficient energy supervision in manufacturing factories. Renewable and Sustainable Energy Reviews, 2023, 182, 113409.	16.4	0
1209	SPH method used for characteristic predictions at Pelton turbine buckets: comparing with the mesh-based method. Engineering Computations, 2023, 40, 1245-1265.	1.4	0
1210	A dynamic approach for the multi-compartment vehicle routing problem in waste management. Renewable and Sustainable Energy Reviews, 2023, 184, 113526.	16.4	16
1211	Prediction and influencing factors of photovoltaic system power generation of a single house based on continuously measured data. Indoor and Built Environment, 0, , .	2.8	0
1212	Energy efficient compressed air filtration: An experimental study on the effect of filters selection and configuration on pressure drop. Thermal Science, 2024, 28, 377-389.	1.1	0
1213	Critical review of energy planning models for the sustainable development at company level. Energy Strategy Reviews, 2023, 49, 101136.	7.3	4
1214	Grid-Connected Solar PV Power Plants Optimization: A Review. IEEE Access, 2023, 11, 79588-79608.	4.2	8
1215	An assessment of hybrid-energy storage systems in the renewable environments. Journal of Energy Storage, 2023, 72, 108307.	8.1	13
1216	Digital Twin and Artificial Intelligence Incorporated with Surrogate Modeling for Hybrid and Sustainable Energy Systems., 2023,, 2837-2859.		0
1217	Fuel cell-based hybrid electric vehicles: An integrated review of current status, key challenges, recommended policies, and future prospects., 2023, 2, 100121.		13
1218	Day-Ahead Bidding Strategy of a Virtual Power Plant with Multi-Level Electric Energy Interaction in China. Energies, 2023, 16, 6760.	3.1	0
1219	Pushing the boundaries of modular-integrated construction: A symmetric skeleton grammar-based multi-objective optimization of passive design for energy savings and daylight autonomy. Energy and Buildings, 2023, 296, 113417.	6.7	3
1220	Towards a Common Methodology and Modelling Tool for 100% Renewable Energy Analysis: A Review. Energies, 2023, 16, 6598.	3.1	5

#	Article	IF	Citations
1221	Sulfur-bridged oxotitanium phthalocyanine- and porphyrin-based cocktail dyes as sensitizers for improved dye sensitized solar cell efficiency. Dyes and Pigments, 2023, 220, 111623.	3.7	0
1222	Wurtzite nanostructured piezoelectric devices. Materials Today Sustainability, 2023, 23, 100474.	4.1	0
1223	A Review of Methodologies for Managing Energy Flexibility Resources in Buildings. Energies, 2023, 16, 6111.	3.1	1
1224	Washing walnut shells with the aqueous part of pyrolysis liquids: effect on biomass and pyrolysis product quality. Environment, Development and Sustainability, 0, , .	5.0	0
1225	Catalytic CO ₂ Conversion to C1 Chemicals over Singleâ€Atom Catalysts. Advanced Energy Materials, 2023, 13, .	19.5	1
1227	Group assessment for the selection of sustainable small-scale power supply projects: A study case from northern Colombia. Journal of Cleaner Production, 2023, 425, 138834.	9.3	1
1228	Greenhouse gas protection and control based upon the evolution of overburden fractures under coal mining: A review of methods, influencing factors, and techniques. Energy, 2023, 284, 129158.	8.8	14
1229	A Review on the Impact of Hybrid Renewable Energy Systems for Sustainability and Energy Management. Advances in Electronic Government, Digital Divide, and Regional Development Book Series, 2023, , 263-281.	0.2	0
1230	Feasibility Study of a Micro Hydro Power Plant for Rural Electrification in Lalumpe Village, North Sulawesi, Indonesia. Sustainability, 2023, 15, 14285.	3.2	0
1231	Recycling valuable materials from the cathodes of spent lithium-ion batteries: A comprehensive review. Journal of Energy Storage, 2023, 73, 109073.	8.1	1
1232	Optimizing fin design for enhanced melting performance in latent heat thermal energy storage systems. Journal of Energy Storage, 2023, 73, 109108.	8.1	0
1233	Design, machining and characterization of the components required for the manufacture of a supercapacitor. Journal of Energy Storage, 2023, 73, 109110.	8.1	2
1234	Design and planning of global sustainable bio-hydrogen supply chain with uncertainty: A transportation-oriented robust model. Chemical Engineering Science, 2024, 283, 119365.	3.8	0
1235	Site selection modeling of hybrid renewable energy facilities using suitability index in spatial planning. Renewable Energy, 2023, 219, 119458.	8.9	0
1236	Eagle Strategy in Nature-Inspired Optimization: Theory, Analysis, Applications, and Comparative Study. Archives of Computational Methods in Engineering, 0, , .	10.2	1
1237	Multidisciplinary design optimization in Architecture, Engineering, and Construction: a detailed review and call for collaboration. Structural and Multidisciplinary Optimization, 2023, 66, .	3.5	1
1238	A multi-criteria decision model to support sustainable building energy management system with intelligent automation. Energy and Buildings, 2023, 301, 113687.	6.7	0
1239	Improving power plant technology to increase energy efficiency of autonomous consumers using geothermal sources. Energy Harvesting and Systems, 2024, 11 , .	2.7	O

#	Article	IF	CITATIONS
1240	Advancing renewable fuel integration: A comprehensive response surface methodology approach for internal combustion engine performance and emissions optimization. Heliyon, 2023, 9, e22238.	3.2	1
1241	A review on renewable energy-based chemical engineering design and optimization. Renewable and Sustainable Energy Reviews, 2024, 189, 114015.	16.4	1
1242	Surrogate-assisted level-based learning evolutionary search for geothermal heat extraction optimization. Renewable and Sustainable Energy Reviews, 2024, 189, 113860.	16.4	0
1243	A high-power and high-efficiency mini generator for scavenging energy from human foot movement. Science China Technological Sciences, 2023, 66, 3381-3392.	4.0	0
1244	Optimal Energy Mix Model for the UAE Considering Economic and Environmental Impacts. , 2023, , .		0
1245	Influence of seasonal air density fluctuations on wind speed distribution in complex terrains in the context of energy yield. Energy, Ecology and Environment, 0, , .	3.9	1
1246	Multi-period, multi-timescale stochastic optimization model for simultaneous capacity investment and energy management decisions for hybrid Micro-Grids with green hydrogen production under uncertainty. Renewable and Sustainable Energy Reviews, 2024, 190, 114049.	16.4	1
1247	Autonomous Multi-Factor Energy Flows Controller (AmEFC): Enhancing Renewable Energy Management with Intelligent Control Systems Integration. Energy and Power Engineering, 2023, 15, 399-442.	0.8	0
1248	Sustainable supply chain management in energy production: A literature review. Renewable and Sustainable Energy Reviews, 2024, 191, 114085.	16.4	1
1249	Biological H2(g) Production and Modelling with Computational Fluid Dynamics (CFD). WSEAS Transactions on Biology and Biomedicine, 2023, 20, 321-342.	0.5	0
1250	Environmental Sustainability Implications and Economic Prosperity of Integrated Renewable Solutions in Urban Development. Energies, 2023, 16, 8120.	3.1	0
1251	Al-Based Computational Model in Sustainable Transformation of Energy Markets. Energies, 2023, 16, 8059.	3.1	0
1252	Heat and Mass Limitations in an Anaerobic Digestion Process. WSEAS Transactions on Heat and Mass Transfer, 2023, 18, 119-139.	0.4	0
1253	Building a 5D Database of Heliostats Flux Distributions: Toward High Flexibility High Accuracy Flux Control for Odeillo's Big Solar Furnace. , 0, 1 , .		1
1254	Aerostructural Design Optimization of Wind Turbine Blades. Processes, 2024, 12, 22.	2.8	0
1255	An Occupant-Centric Comfort Control Strategy Using Wearable Smart Devices in Smart-Buildings. , 2023, , .		0
1256	Local sustainable communities: Sector coupling and community optimization in decentralized energy systems., 2024, 7, 100106.		0
1258	Multi-objective optimization of building envelope components based on economic, environmental, and thermal comfort criteria. Energy and Buildings, 2024, 305, 113909.	6.7	0

#	Article	IF	CITATIONS
1259	Impact of Renewable Energy Integration on Commodity Markets. SSRN Electronic Journal, 0, , .	0.4	0
1260	Multi-criteria aerodynamic optimization of wind farm energy efficiency based on genetic algorithms. Tehnika, 2023, 78, 681-696.	0.2	0
1261	Research progress on the integration and optimal design of desalination process. Separation and Purification Technology, 2024, 337, 126423.	7.9	0
1262	Towards carbon neutrality: A multi-objective optimization model for photovoltaics systems installation planning. Sustainable Energy Technologies and Assessments, 2024, 62, 103625.	2.7	0
1263	Energy Transition in Urban Water Infrastructures towards Sustainable Cities. Water (Switzerland), 2024, 16, 504.	2.7	0
1264	Photovoltaic Production Selection Using WSM MCDM Method., 2023,,.		0
1265	Impact of Grid-tied Battery to Grid (B2G) Technology for Electric Vehicles Battery Swapping Station. , 2023, , .		0
1266	Computational study of two-dimensional SnGe ₂ N ₄ as a promising photocatalyst for the oxygen evolution reaction. New Journal of Chemistry, 2024, 48, 4922-4930.	2.8	0
1267	Synthesis of nitrogen-doped graphene coupled acid fuchsin photocatalyst turns aryl-vinyl into aromatic aldehydes under visible light. Main Group Chemistry, 2024, , 1-13.	0.8	0
1268	Enhanced renewable power and load forecasting using RF-XGBoost stacked ensemble. Electrical Engineering, 0, , .	2.0	0
1269	Machine learning solutions for renewable energy systems: Applications, challenges, limitations, and future directions. Journal of Environmental Management, 2024, 354, 120392.	7.8	0
1270	MORSA: Multi-objective reptile search algorithm based on elite non-dominated sorting and grid indexing mechanism for wind farm layout optimization problem. Energy, 2024, 293, 130771.	8.8	0
1271	Development status and application analysis of new energy photovoltaic power generation energy market based on artificial intelligence. International Journal of Low-Carbon Technologies, 2024, 19, 351-358.	2.6	0
1272	Dispersion of hydrogen in different potential cushion gases. International Journal of Hydrogen Energy, 2024, 60, 940-948.	7.1	0
1273	Optimal Sizing of Hybrid Renewable Energy System Using Two-Stage Stochastic Programming. International Journal of Energy Research, 2024, 2024, 1-20.	4.5	0
1274	Photovoltaic systems: a review with analysis of the energy transition in Brazilian culture, 2018–2023. Energy Informatics, 2024, 7, .	2.3	0
1275	Handling forecast uncertainty and variability in solar generation to mitigate schedule deviation penalties. Solar Energy, 2024, 271, 112401.	6.1	0
1276	Attention-Based Models for Multivariate Time Series Forecasting: Multi-step Solar Irradiation Prediction. Heliyon, 2024, 10, e27795.	3.2	0