A review of computer tools for analysing the integration various energy systems

Applied Energy 87, 1059-1082 DOI: 10.1016/j.apenergy.2009.09.026

Citation Report

#	Article	IF	CITATIONS
1	Analysis of Long-Term Plan for Energy Supply System for Latvia that is 100% Based on the Use of Local Energy Resources. Environmental and Climate Technologies, 2010, 4, 82-90.	0.2	19
2	Regulation strategies of cogeneration of heat and power (CHP) plants and electricity transit in Denmark. Energy, 2010, 35, 2194-2202.	4.5	49
3	A renewable energy scenario for Aalborg Municipality based on low-temperature geothermal heat, wind power and biomass. Energy, 2010, 35, 4892-4901.	4.5	201
4	A model for the development of a power production system in Greece, Part I: Where RES do not meet EU targets. Energy Policy, 2010, 38, 6499-6513.	4.2	13
5	Conversion of individual natural gas to district heating: Geographical studies of supply costs and consequences for the Danish energy system. Applied Energy, 2010, 87, 1846-1857.	5.1	110
6	Fast market penetration of energy technologies in retrospect with application to clean energy futures. Applied Energy, 2010, 87, 3575-3583.	5.1	33
7	Energy and environmental systems planning under uncertainty—An inexact fuzzy-stochastic programming approach. Applied Energy, 2010, 87, 3189-3211.	5.1	88
8	The role of district heating in future renewable energy systems. Energy, 2010, 35, 1381-1390.	4.5	644
9	Modelling the existing Irish energy-system to identify future energy costs and the maximum wind penetration feasible. Energy, 2010, 35, 2164-2173.	4.5	90
10	A model for the development of a power production system in Greece, Part II: Where RES meet EU targets. Energy Policy, 2010, 38, 6514-6528.	4.2	15
11	Characterization tool for photovoltaic power sources. , 2010, , .		2
12	A methodology to consider combined electrical infrastructure and real-time power-flow impact costs in planning large-scale renewable energy farms. , 2010, , .		1
13	Modeling resource, infrastructure, and policy cost layers for optimizing renewable energy investment and deployment. , 2010, , .		4
14	Technological impact of non-conventional renewable energy in the Chilean electricity system. , 2010, , \cdot		6
15	Quantifying state-policy incentives for the renewable energy investor. , 2010, , .		4
16	Geo-Spatial resource analysis and optimization of investment strategies for renewable energy. , 2010, , ·		6
17	Integrating climate change adaptation and mitigation into sustainable development planning for Lijiang City. International Journal of Sustainable Development and World Ecology, 2011, 18, 515-522.	3.2	15
18	Software tools overview: process integration, modelling and optimisation for energy saving and pollution reduction. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 696-712.	0.8	40

C_{1}		ON	Report
\sim	IAL		REPORT

#	Article	IF	CITATIONS
19	Intelligent analysis and design of heat pump based hybrid renewable energy systems operating in the Irish cool marine climate. , 2011, , .		0
20	Optimization of a Local District Heating Plant Under Fuel Flexibility and Performance. , 2011, , .		0
21	On the planning and analysis of Integrated Community Energy Systems: A review and survey of available tools. Renewable and Sustainable Energy Reviews, 2011, 15, 4836-4854.	8.2	213
22	Effective biomass integration into existing combustion plant. Energy, 2011, 36, 4654-4662.	4.5	28
23	Large-scale integration of wind power into the existing Chinese energy system. Energy, 2011, 36, 4753-4760.	4.5	156
24	Integration of wind power into the British system in 2020. Energy, 2011, 36, 5975-5983.	4.5	35
25	Fluctuating renewables in a long-term climate change mitigation strategy. Energy, 2011, 36, 6674-6685.	4.5	110
26	A Romanian energy system model and a nuclear reduction strategy. Energy, 2011, 36, 6413-6419.	4.5	45
27	Evaluating policy options for increasing the RES-E penetration in Greece. Energy Policy, 2011, 39, 5388-5398.	4.2	17
28	Modeling hourly electricity dynamics for policy making in long-term scenarios. Energy Policy, 2011, 39, 4692-4702.	4.2	96
29	A modified honey bee mating optimization algorithm for multiobjective placement of renewable energy resources. Applied Energy, 2011, 88, 4817-4830.	5.1	173
31	Feed-in tariffs for promotion of energy storage technologies. Energy Policy, 2011, 39, 1410-1425.	4.2	59
32	Pumped storage in systems with very high wind penetration. Energy Policy, 2011, 39, 1965-1974.	4.2	186
33	A global renewable energy system: A modelling exercise in ETSAP/TIAM. Applied Energy, 2011, 88, 526-534.	5.1	62
34	Increasing the penetration of renewable energy resources in S. Vicente, Cape Verde. Applied Energy, 2011, 88, 466-472.	5.1	101
35	Wind power investment within a market environment. Applied Energy, 2011, 88, 3239-3247.	5.1	80
36	Large scale integration of wind power: moderating thermal power plant cycling. Wind Energy, 2011, 14, 91-105.	1.9	23
37	100% Renewable energy systems, climate mitigation and economic growth. Applied Energy, 2011, 88, 488-501.	5.1	583

		REPORT	
#	Article	IF	Citations
38	The first step towards a 100% renewable energy-system for Ireland. Applied Energy, 2011, 88, 502-507.	5.1	377
39	China's energy security: The perspective of energy users. Applied Energy, 2011, 88, 1949-1956.	5.1	90
40	Conditions for aggregation of CHP plants in the UK electricity market and exploration of plant size. Applied Energy, 2011, 88, 3930-3940.	5.1	56
41	An energy balance and greenhouse gas profile for county Wexford, Ireland in 2006. Applied Energy, 2011, 88, 3773-3781.	5.1	1
42	The green brewery concept – Energy efficiency and the use of renewable energy sources in breweries. Applied Thermal Engineering, 2011, 31, 2123-2134.	3.0	80
43	Zero energy buildings and mismatch compensation factors. Energy and Buildings, 2011, 43, 1646-1654.	3.1	131
44	Optimisation based design of a district energy system for an eco-town in the United Kingdom. Energy, 2011, 36, 1292-1308.	4.5	198
45	Comparative analysis of hourly and dynamic power balancing models for validating future energy scenarios. Energy, 2011, 36, 3233-3243.	4.5	65
46	How to achieve a 100% RES electricity supply for Portugal?. Applied Energy, 2011, 88, 508-517.	5.1	162
48	Paradigm shift in urban energy systems through distributed generation: Methods and models. Applied Energy, 2011, 88, 1032-1048.	5.1	346
49	Modeling and design of a solar thermal system for hybrid cooking application. Applied Energy, 2011, 88, 1740-1755.	5.1	49
50	Strategies for optimal penetration of intermittent renewables in complex energy systems based on techno-operational objectives. Renewable Energy, 2011, 36, 743-753.	4.3	107
51	Techno-economic analysis of a stand-alone hybrid photovoltaic-diesel–battery-fuel cell power system. Renewable Energy, 2011, 36, 2238-2244.	4.3	121
52	A Monte Carlo approach to generator portfolio planning and carbon emissions assessments of systems with large penetrations of variable renewables. Renewable Energy, 2011, 36, 2278-2286.	4.3	189
53	A contribution in the actualization of wind map of Algeria. Renewable and Sustainable Energy Reviews, 2011, 15, 993-1002.	8.2	72
54	Optimization methods applied to renewable and sustainable energy: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 1753-1766.	8.2	1,276
55	Assessing the sustainability of energy technological systems in Southern Africa: A review and way forward. Technology in Society, 2011, 33, 145-155.	4.8	21
56	Multi Objective Optimization of Lifecycle Cost, Unmet Load, and Renewable Energy Capacity for an Expansion of Existing Standalone Internal Combustion Generator (ICG) Systems. , 2011, , .		5

#	Article	IF	CITATIONS
57	An integrated approach to optimization of energy supply mix in smart buildings. , 2011, , .		1
58	Cost Effective Options for Greenhouse Gas (GHG) Emission Reduction in the Power Sector for Developing Economies — A Case Study in Sabah, Malaysia. Energies, 2011, 4, 780-803.	1.6	5
59	Potential assessment of establishing a renewable energy plant in a rural agricultural area. Journal of the Air and Waste Management Association, 2012, 62, 662-670.	0.9	5
60	More Wind Power Integration with Adjusted Energy Carriers for Space Heating in Northern China. Energies, 2012, 5, 3279-3294.	1.6	7
61	DMS - basis for increasing of green distributed generation penetration in distribution networks. Thermal Science, 2012, 16, 189-203.	0.5	5
62	Integrating waste biomass into thermal energy production systems: a strategic methodological framework. Civil Engineering and Environmental Systems, 2012, 29, 255-272.	0.4	7
63	Role of the national energy system modelling in the process of the policy development. Thermal Science, 2012, 16, 703-715.	0.5	5
64	A demand based approach to optimisation of energy supply mix for smart buildings. , 2012, , .		5
65	A hybrid simulation framework to assess the impact of renewable generators on a distribution network. , 2012, , .		3
66	Design and Control of Smart Hybrid Renewable Energy Systems Using Modified Genetic Algorithms and Direct Design Control. , 2012, , .		1
67	A Dynamic Growth Model of Wind Power Optimal Investment Paths. Advanced Materials Research, 2012, 608-609, 713-718.	0.3	0
68	A method for including daily patterns to synthetic wind speed data for energy systems planning: Validation in the Azores Islands. Journal of Renewable and Sustainable Energy, 2012, 4, 023102.	0.8	1
69	Integrating spatial models into regional energy system optimisation: focusing on biomass. International Journal of Energy Sector Management, 2012, 6, 5-32.	1.2	8
70	Development and Validation of an Advanced Simulation Model for ORC-Based Systems. , 2012, , .		3
71	Advanced visualization techniques, virtual and augmented reality. , 2012, , 749-788.		2
72	LONG-RUN ENERGY AND EMISSIONS MODELING IN CHILE: SCENARIO ASSESSMENT USING MESSAGE. IEEE Latin America Transactions, 2012, 10, 1525-1536.	1.2	6
73	Socio-technical implication of renewable energy sources: African health care case study with Monte-Carlo simulations. , 2012, , .		1
74	Feasibility study of small Hydro/PV/Wind hybrid system for off-grid rural electrification in Ethiopia. Applied Energy, 2012, 97, 5-15.	5.1	351

#	Article	IF	CITATIONS
75	Day-ahead resource scheduling in smart grids considering Vehicle-to-Grid and network constraints. Applied Energy, 2012, 96, 183-193.	5.1	114
76	The meaning of energy systems for the genesis of the concept of sustainable development. Applied Energy, 2012, 97, 192-200.	5.1	25
77	Selection of battery technology to support grid-integrated renewable electricity. Journal of Power Sources, 2012, 216, 376-386.	4.0	151
78	Multi-commodity network flow models for dynamic energy management – Mathematical formulation. Energy Procedia, 2012, 14, 1380-1385.	1.8	23
79	Thermal battery with CO2 compression heat pump: Techno-economic optimization of a high-efficiency Smart Grid option for buildings. Energy and Buildings, 2012, 50, 128-138.	3.1	34
80	The economic crisis and sustainable development: The design of job creation strategies by use of concrete institutional economics. Energy, 2012, 43, 192-200.	4.5	65
81	Integrating large shares of wind energy in macro-economical cost-effective way. Energy, 2012, 43, 438-447.	4.5	24
82	Wind Power Investment: A Benders Decomposition Approach. IEEE Transactions on Power Systems, 2012, 27, 433-441.	4.6	89
83	Reserve Setting and Steady-State Security Assessment Using Wind Power Uncertainty Forecast: A Case Study. IEEE Transactions on Sustainable Energy, 2012, 3, 827-836.	5.9	58
84	An analysis methodology for integrating renewable and nuclear energy into future smart electricity systems. International Journal of Energy Research, 2012, 36, 1416-1431.	2.2	19
85	Stand-Alone, Hybrid Systems. , 2012, , 623-655.		3
86	Hybrid Simulated Annealing–Tabu Search Method for Optimal Sizing of Autonomous Power Systems With Renewables. IEEE Transactions on Sustainable Energy, 2012, 3, 330-338.	5.9	192
87	Case study: Simulation and optimization of photovoltaic-wind-battery hybrid energy system in Taleghan-Iran using <scp>homer</scp> software. Journal of Renewable and Sustainable Energy, 2012, 4,	0.8	66
88	An investigation of coated aluminium bipolar plates for PEMFC. Applied Energy, 2012, 100, 87-92.	5.1	58
89	Methods for multi-objective investment and operating optimization of complex energy systems. Energy, 2012, 45, 12-22.	4.5	137
90	Creating consciousness about the opportunities to integrate sustainable energy on islands. Energy, 2012, 48, 339-345.	4.5	28
91	A cost optimization model for 100% renewable residential energy supply systems. Energy, 2012, 48, 118-127.	4.5	88
92	The role of Carbon Capture and Storage in a future sustainable energy system. Energy, 2012, 44, 469-476.	4.5	106

ARTICLE

IF CITATIONS

Modelling elements of Smart Grids $\hat{a} \in \hat{C}$ Enhancing the OSeMOSYS (Open Source Energy Modelling) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5

94	The potential for avoided emissions from photovoltaic electricity in the United States. Energy, 2012, 47, 443-450.	4.5	45
95	Preliminary determination of optimal size for renewable energy resources in buildings using RETScreen. Energy, 2012, 47, 83-96.	4.5	76
96	Wind power integration using individual heat pumps – Analysis of different heat storage options. Energy, 2012, 47, 284-293.	4.5	197
97	Robust optimization of distributed generation investment in buildings. Energy, 2012, 48, 455-463.	4.5	47
98	Long-Term Statistical Assessment of Frequency Regulation Reserves Policies in the Québec Interconnection. IEEE Transactions on Sustainable Energy, 2012, 3, 868-879.	5.9	6
99	Optimal design of hybrid renewable energy system for electrification of a remote village in Egypt. , 2012, , .		10
100	Assessing residual hydropower potential of the La Plata Basin accounting for future user demands. Hydrology and Earth System Sciences, 2012, 16, 2813-2823.	1.9	24
101	Multi-Objective, Multi-Period Optimization of Renewable Technologies and storage system Using Evolutionary Algorithms and Mixed Integer Linear Programming (MILP). Computer Aided Chemical Engineering, 2012, 31, 890-894.	0.3	5
102	Multi-Objectives, Multi-Period Optimization of district heating networks Using Evolutionary Algorithms and Mixed Integer Linear Programming (MILP). Computer Aided Chemical Engineering, 2012, 30, 262-266.	0.3	5
103	Transport energy demand forecast using multi-level genetic programming. Applied Energy, 2012, 91, 496-503.	5.1	33
104	End-use energy savings and district heating expansion in a local renewable energy system – A short-term perspective. Applied Energy, 2012, 92, 831-842.	5.1	102
105	Towards an intermittency-friendly energy system: Comparing electric boilers and heat pumps in distributed cogeneration. Applied Energy, 2012, 91, 349-365.	5.1	163
106	Visual preferences for wind turbines: Location, numbers and respondent characteristics. Applied Energy, 2012, 92, 269-278.	5.1	167
107	Environmental and economic aspects of higher RES penetration into Macedonian power system. Applied Thermal Engineering, 2012, 43, 158-162.	3.0	34
108	The impact of CHP (combined heat and power) planning restrictions on the efficiency of urban energy systems. Energy, 2012, 41, 93-103.	4.5	93
109	Plug-in hybrid electric vehicles as a way to maximize the integration of variable renewable energy in power systems: The case of wind generation in northeastern Brazil. Energy, 2012, 37, 469-481.	4.5	163
110	Scenario analysis on future electricity supply and demand in Japan. Energy, 2012, 38, 376-385.	4.5	89

#	Article	IF	CITATIONS
111	Sensitivity of district heating system operation to heat demand reductions and electricity price variations: A Swedish example. Energy, 2012, 41, 525-540.	4.5	43
112	Soft-linking of a power systems model to an energy systems model. Energy, 2012, 42, 303-312.	4.5	202
113	A sustainable scenario for Venezuelan power generation sector in 2050 and its costs. Energy Policy, 2012, 44, 331-340.	4.2	56
114	Evaluating biomass energy strategies for a UK eco-town with an MILP optimization model. Biomass and Bioenergy, 2012, 39, 306-316.	2.9	49
115	The technical and economic implications of integrating fluctuating renewable energy using energy storage. Renewable Energy, 2012, 43, 47-60.	4.3	182
116	Integration of PV power into future low-carbon smart electricity systems with EV and HP in Kansai Area, Japan. Renewable Energy, 2012, 44, 99-108.	4.3	85
117	Peaking strategies for the management of wind-H2 energy systems. Renewable Energy, 2012, 47, 103-111.	4.3	12
118	Energy models for demand forecasting—A review. Renewable and Sustainable Energy Reviews, 2012, 16, 1223-1240.	8.2	910
119	Optimum design of hybrid renewable energy systems: Overview of different approaches. Renewable and Sustainable Energy Reviews, 2012, 16, 1412-1425.	8.2	584
120	Bridging the scales: A conceptual model for coordinated expansion of renewable power generation, transmission and storage. Renewable and Sustainable Energy Reviews, 2012, 16, 2687-2695.	8.2	46
121	Optimal sizing of renewable hybrids energy systems: A review of methodologies. Solar Energy, 2012, 86, 1077-1088.	2.9	437
122	The Potential of Intermittent Renewables to Meet Electric Power Demand: Current Methods and Emerging Analytical Techniques. Proceedings of the IEEE, 2012, 100, 322-334.	16.4	110
123	Unified System-Level Modeling of Intermittent Renewable Energy Sources and Energy Storage for Power System Operation. IEEE Systems Journal, 2012, 6, 140-151.	2.9	127
124	Techno-economic analysis of stand-alone hybrid photovoltaic–diesel–battery systems for rural electrification in eastern part of Iran—A step toward sustainable rural development. Renewable and Sustainable Energy Reviews, 2013, 28, 456-462.	8.2	78
125	High-resolution modeling framework for planning electricity systems with high penetration of renewables. Applied Energy, 2013, 112, 215-223.	5.1	140
126	A novel approach to the regulation of a self-sufficient energy system using a system-state matrix. International Journal of Electrical Power and Energy Systems, 2013, 53, 893-899.	3.3	0
127	Integrated energy planning in cities and territories: A review of methods and tools. Renewable and Sustainable Energy Reviews, 2013, 22, 289-297.	8.2	158
128	Toward renewable energy geo-information infrastructures: Applications of GIScience and remote sensing that build institutional capacity. Renewable and Sustainable Energy Reviews, 2013, 18, 416-429.	8.2	91

#	Article	IF	CITATIONS
129	Modelling the transport system in China and evaluating the current strategies towards the sustainable transport development. Energy Policy, 2013, 58, 347-357.	4.2	55
130	The impact of future energy demand on renewable energy production – Case of Norway. Energy, 2013, 61, 419-431.	4.5	59
131	Business optimal design of a grid-connected hybrid PV (photovoltaic)-wind energy system without energy storage for an Easter Island's block. Energy, 2013, 61, 248-261.	4.5	133
132	A simplified model for the estimation of energy production ofÂPVÂsystems. Energy, 2013, 59, 503-512.	4.5	47
133	Complementarity Modeling in Energy Markets. Profiles in Operations Research, 2013, , .	0.3	220
134	Distributed energy resource system optimisation using mixed integer linear programming. Energy Policy, 2013, 61, 249-266.	4.2	182
136	Influence of individual heat pumps on wind power integration – Energy system investments and operation. Energy Conversion and Management, 2013, 75, 673-684.	4.4	79
137	A hybrid simulation model for large-scaled electricity generation systems. , 2013, , .		9
138	Grid vs. storage in a 100% renewable Europe. Renewable Energy, 2013, 50, 826-832.	4.3	286
139	Advances in the integration of solar thermal energy with conventional and non-conventional power plants. Renewable and Sustainable Energy Reviews, 2013, 20, 71-81.	8.2	163
140	Electric vehicles and large-scale integration of wind power – The case of Inner Mongolia in China. Applied Energy, 2013, 104, 445-456.	5.1	78
141	Economic impact of performances degradation on the competitiveness of energy storage technologies – Part 1: Introduction to the simulation-optimization platform ODYSSEY and elements of validation on a PV-hydrogen hybrid system. International Journal of Hydrogen Energy, 2013, 38, 15219-15232.	3.8	16
142	Cost optimal analysis of heat pump technology adoption in residential reference buildings. Renewable Energy, 2013, 60, 615-624.	4.3	56
143	What's the most cost-effective policy of CO2 targeted reduction: An application of aggregated economic technological model with CCS?. Applied Energy, 2013, 112, 866-875.	5.1	71
144	A New VSAS approach for Maximum Power Tracking for Renewable Energy Sources (RES). Energy Procedia, 2013, 42, 708-717.	1.8	7
145	Exploration of the integration of renewable resources into California's electric system using the Holistic Grid Resource Integration and Deployment (HiGRID) tool. Energy, 2013, 50, 353-363.	4.5	60
146	Development of sustainable energy on generation system leads to eco-friendly society. Sustainable Cities and Society, 2013, 8, 1-15.	5.1	4
147	Optimal electricity system planning in a large hydro jurisdiction: Will British Columbia soon become a major importer of electricity?. Energy Policy, 2013, 54, 311-319.	4.2	18

#	Article	IF	CITATIONS
148	Development of an urban energy demand forecasting system to support environmentally friendly urban planning. Applied Energy, 2013, 110, 304-317.	5.1	47
149	Multiagent Stochastic Simulation of Minute-to-Minute Grid Operations and Control to Integrate Wind Generation Under AC Power Flow Constraints. IEEE Transactions on Sustainable Energy, 2013, 4, 619-629.	5.9	8
150	An integrated model for long-term power generation planning toward future smart electricity systems. Applied Energy, 2013, 112, 1424-1437.	5.1	77
151	Identifying the underpin of green and low carbon technology innovation research: A literature review from 1994 to 2010. Technological Forecasting and Social Change, 2013, 80, 839-864.	6.2	95
152	POLICY-RELEVANT APPLICATIONS OF ENVIRONMENTALLY EXTENDED MRIO DATABASES – EXPERIENCES FROM THE UK. Economic Systems Research, 2013, 25, 143-156.	1.2	62
153	Stand-alone PV-hydrogen energy system in Taleghan-Iran using HOMER software: optimization and techno-economic analysis. Environment, Development and Sustainability, 2013, 15, 1389-1402.	2.7	46
154	A review on the methods for biomass to energy conversion systems design. Renewable and Sustainable Energy Reviews, 2013, 25, 420-430.	8.2	117
155	Surface roughness effect on the metallic bipolar plates of a proton exchange membrane fuel cell. Applied Energy, 2013, 104, 898-904.	5.1	12
156	Increasing wind power penetration into the existing Serbian energy system. Energy, 2013, 57, 30-37.	4.5	47
157	Effects of smart grid technologies on capacity and energy savings – A case study of Oman. Energy, 2013, 54, 365-371.	4.5	42
158	A Long-Term Electricity Dispatch Model with the TIMES Framework. Environmental Modeling and Assessment, 2013, 18, 325-343.	1.2	71
159	Modelling generation and infrastructure requirements for transition pathways. Energy Policy, 2013, 52, 60-75.	4.2	41
160	Emissions reduction and economic implications of renewable energy market penetration of power generation for residential consumption in the MENA region. Energy Policy, 2013, 52, 618-627.	4.2	24
161	Wind power design in isolated energy systems: Impacts of daily wind patterns. Applied Energy, 2013, 101, 533-540.	5.1	19
162	Multi-objective, multi-period optimization of biomass conversion technologies using evolutionary algorithms and mixed integer linear programming (MILP). Applied Thermal Engineering, 2013, 50, 1504-1513.	3.0	101
163	Estimation of the Monthly Average Daily Solar Radiation using Geographic Information System and Advanced Case-Based Reasoning. Environmental Science & Technology, 2013, 47, 4829-4839.	4.6	63
164	Optimal design of a grid connected hybrid electrical energy system using evolutionary computation. , 2013, , .		8
165	A framework for allocating greenhouse gas emissions from electricity generation to plug-in electric vehicle charging. Energy Policy, 2013, 60, 722-732.	4.2	21

#	Article	IF	CITATIONS
166	Advanced simulation tool for the optimal management of photovoltaic generation in combined systems. , 2013, , .		1
167	Multi-objective, multi-period optimization of district energy systems: Networks design. Computer Aided Chemical Engineering, 2013, 32, 463-468.	0.3	2
168	Application of Wind Energy Source to Large Scale Desalination System Prefeasibility Analysis-Investigation of Wind Power Potential in Coastal Areas of Tamilnadu. Advanced Materials Research, 2013, 768, 57-63.	0.3	0
169	Power, Control and Optimization. Lecture Notes in Electrical Engineering, 2013, , .	0.3	4
170	A modular methodology for the development of urban energy planning support software. , 2013, , .		6
171	PREPARATION OF METEOROLOGICAL DATA FOR INCREASING RENEWABLE ENERGY INTEGRATION / METEOROLOGINIÅ ² DUOMENÅ ² RENGIMAS ATSINAUJINANÄŒIOSIOS ENERGIJOS INTEGRAVIMO PROCESUI SKAT Science: Future of Lithuania, 2013, 5, 442-448.	'INTD	0
172	Synergies between electric vehicles and solar electricity penetrations in Portugal. , 2013, , .		3
173	Synergies between electric vehicles and solar electricity penetrations in Portugal. World Electric Vehicle Journal, 2013, 6, 1151-1158.	1.6	1
174	The Logistics of Bioenergy Routes for Heat and Power. , 0, , .		1
175	DESIGN METHOD OF RESOURCE CIRCULATION AND ENERGY SYSTEM WITH CONSIDERING SPATIAL CHARACTERISTICS. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2014, 70, II_33-II_43.	0.1	0
176	New Energy Planning Software for Analysis of Island Energy Systems and Microgrid Operations – H2RES Software as a Tool to 100% Renewable Energy System. Computer Aided Chemical Engineering, 2014, , 1855-1860.	0.3	7
177	Market Power, Fuel Substitution and Infrastructure: A Large-Scale Equilibrium Model of Global Energy Markets. SSRN Electronic Journal, 0, , .	0.4	1
178	Wood chip drying in connection with combined heat and power or solar energy in Finland. EPJ Web of Conferences, 2014, 79, 03008.	0.1	2
180	An open source energy system simulation model as an instrument for public participation in the development of strategies for a sustainable future. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 490-504.	1.9	33
181	A hybrid wind/solar/diesel stand alone system optimisation for remote areas in Algeria. International Journal of Renewable Energy Technology, 2014, 5, 12.	0.2	9
182	Simulation modeling framework to assess renewable based electric power system. , 2014, , .		0
183	Intelligent diagnosis scheme applied to model hybrid energy power generation system in presence of soft faults requirements: An FDI novel strategy. , 2014, , .		0
184	Integrated and realistic approach to energy planning – a case study of Slovenia. Management of Environmental Quality, 2014, 25, 30-51.	2.2	12

#	Article	IF	CITATIONS
185	Modeling the Allocation and Economic Evaluation of PV Panels and Wind Turbines in Urban Areas. Procedia Environmental Sciences, 2014, 22, 333-351.	1.3	13
186	Operation of residential hybrid renewable energy systems: Integrating forecasting, optimization and demand response. , 2014, , .		15
187	Modeling country-scale electricity demand profiles. , 2014, , .		5
188	A fuzzy nearest neighbor neural network statistical model for predicting demand for natural gas and energy cost savings in public buildings. Expert Systems With Applications, 2014, 41, 1813-1829.	4.4	110
189	Role of renewable energy policies in energy dependency in Finland: System dynamics approach. Applied Energy, 2014, 113, 758-765.	5.1	191
190	An efficient multi criteria process optimization framework: Sustainable improvement of the Dimethyl Ether Process. Computers and Chemical Engineering, 2014, 60, 213-230.	2.0	13
191	Cost-benefit comparison between Domestic Solar Water Heater (DSHW) and Building Integrated Photovoltaic (BIPV) systems for households in urban China. Applied Energy, 2014, 126, 47-55.	5.1	42
192	Improving photovoltaics grid integration through short time forecasting and self-consumption. Applied Energy, 2014, 125, 103-113.	5.1	111
193	Financial risk management for new technology integration in energy planning under uncertainty. Applied Energy, 2014, 128, 75-81.	5.1	31
194	Comparison of linear, mixed integer and non-linear programming methods in energy system dispatch modelling. Energy, 2014, 74, 109-118.	4.5	85
195	Economic and environmental assessment of renewable energy micro-systems in a developing country. Sustainable Energy Technologies and Assessments, 2014, 7, 101-110.	1.7	4
196	Planning of regional energy systems: An inexact mixed-integer fractional programming model. Applied Energy, 2014, 113, 500-514.	5.1	53
197	Experimental and simulating examination of computer tools, Radlink and DOE2, for daylighting and energy simulation with venetian blinds. Applied Energy, 2014, 124, 130-139.	5.1	25
198	Multi-objectives, multi-period optimization of district energy systems: III. Distribution networks. Computers and Chemical Engineering, 2014, 66, 82-97.	2.0	48
199	Energy systems modeling for twenty-first century energy challenges. Renewable and Sustainable Energy Reviews, 2014, 33, 74-86.	8.2	735
200	Cost-benefit analysis of sustainable energy development using life-cycle co-benefits assessment and the system dynamics approach. Applied Energy, 2014, 119, 57-66.	5.1	82
201	MES (multi-energy systems): An overview of concepts and evaluation models. Energy, 2014, 65, 1-17.	4.5	1,030
202	Review of software tools for hybrid renewable energy systems. Renewable and Sustainable Energy Reviews, 2014, 32, 192-205.	8.2	699

#	Article	IF	CITATIONS
203	Approach for integrated optimization of community heating system at urban detailed planning stage. Energy and Buildings, 2014, 77, 103-111.	3.1	17
204	Determining the appropriate amount of subsidies for wind power: The integrated renewable power planning (IRPP) model and its application in China. Sustainable Energy Technologies and Assessments, 2014, 6, 141-148.	1.7	10
205	Integration of biomass into urban energy systems for heat and power. Part I: An MILP based spatial optimization methodology. Energy Conversion and Management, 2014, 83, 347-361.	4.4	52
206	A feasibility study of a stand-alone hybrid solar–wind–battery system for a remote island. Applied Energy, 2014, 121, 149-158.	5.1	468
207	Solar Heating & Cooling Energy Mixes to Transform Low Energy Buildings in Nearly Zero Energy Buildings. Energy Procedia, 2014, 48, 924-937.	1.8	33
208	The influence of an estimated energy saving due to natural ventilation on the Mexican energy system. Energy, 2014, 64, 1080-1091.	4.5	22
209	Learning pathways for energy supply technologies: Bridging between innovation studies and learning rates. Technological Forecasting and Social Change, 2014, 81, 96-114.	6.2	48
210	Improving the renewable energy mix in a building toward the nearly zero energy status. Energy and Buildings, 2014, 68, 72-78.	3.1	63
211	Does controlled electric vehicle charging substitute cross-border transmission capacity?. Applied Energy, 2014, 120, 169-180.	5.1	39
212	Long-term optimization of United Arab Emirates energy future: Policy implications. Applied Energy, 2014, 114, 466-474.	5.1	53
213	Simulation and evaluation of Building Information Modeling in a real pilot site. Applied Energy, 2014, 114, 475-484.	5.1	79
214	LEAPs and Bounds—an Energy Demand and Constraint Optimised Model of the Irish Energy System. Energy Efficiency, 2014, 7, 441-466.	1.3	30
215	Heat Roadmap Europe: Combining district heating with heat savings to decarbonise the EU energy system. Energy Policy, 2014, 65, 475-489.	4.2	607
216	Robustness against data availability problems in urban energy planning support software. , 2014, , .		1
217	Heat Roadmap Europe: Identifying strategic heat synergy regions. Energy Policy, 2014, 74, 663-681.	4.2	165
218	An economic analysis of a stand-alone and grid-connected cattle farm. Renewable and Sustainable Energy Reviews, 2014, 39, 883-890.	8.2	14
219	Multi-faceted energy planning: A review. Renewable and Sustainable Energy Reviews, 2014, 38, 686-699.	8.2	80
220	Tool. , 2014, , 53-78.		17

# 221	ARTICLE Application of a microgrid with renewables for a water treatment plant. Applied Energy, 2014, 134, 20-34.	IF 5.1	CITATIONS
222	Incorporating flexibility requirements into long-term energy system models – A case study on high levels of renewable electricity penetration in Ireland. Applied Energy, 2014, 135, 600-615.	5.1	181
223	Carbon and air pollutants constrained energy planning for clean power generation with a robust optimization model—A case study of Jining City, China. Applied Energy, 2014, 136, 150-167.	5.1	40
224	Energy technology allocation for distributed energy resources: A strategic technology-policy framework. Energy, 2014, 72, 783-799.	4.5	46
225	Interactions between electricity generation sources and economic activity in Greece: A VECM approach. Applied Energy, 2014, 132, 34-46.	5.1	44
226	Heat savings in buildings in a 100% renewable heat and power system in Denmark with different shares of district heating. Energy and Buildings, 2014, 82, 173-186.	3.1	33
227	A fuzzy cognitive maps decision support system for renewables local planning. Renewable and Sustainable Energy Reviews, 2014, 39, 209-222.	8.2	50
228	A Canadian 2050 energy outlook: Analysis with the multi-regional model TIMES-Canada. Applied Energy, 2014, 132, 56-65.	5.1	63
229	Market power, fuel substitution and infrastructure – A large-scale equilibrium model of global energy markets. Energy, 2014, 75, 483-500.	4.5	70
230	Energy consumption and conservation practices in Qatar—A case study of a hotel building. Energy and Buildings, 2014, 84, 55-69.	3.1	64
231	Multi criteria dynamic design optimization of a small scale distributed energy system. Energy, 2014, 74, 230-239.	4.5	50
232	An energy system model for Hong Kong in 2020. Energy, 2014, 68, 301-310.	4.5	51
233	Towards low carbon business park energy systems: Classification of techno-economic energy models. Energy, 2014, 75, 68-80.	4.5	32
234	A review on configurations, control and sizing methodologies of hybrid energy systems. Renewable and Sustainable Energy Reviews, 2014, 38, 47-63.	8.2	278
235	Global energy limate scenarios and models: a review. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 363-383.	1.9	82
236	International Congress on Energy Efficiency and Energy Related Materials (ENEFM2013). Springer Proceedings in Physics, 2014, , .	0.1	5
237	Sustainable energy systems for a remote island community. Applied Energy, 2014, 113, 1752-1763.	5.1	64
238	Technical benefits of energy storage and electricity interconnections in future British power systems. Energy, 2014, 70, 577-587.	4.5	56

#	Article	IF	CITATIONS
239	A model for structural and operational optimization of distributed energy systems. Applied Thermal Engineering, 2014, 70, 211-218.	3.0	37
240	Comparing least cost scenarios for 100% renewable electricity with low emission fossil fuel scenarios in the Australian National Electricity Market. Renewable Energy, 2014, 66, 196-204.	4.3	151
241	CCS (carbon capture and storage) investment possibility in South East Europe: A case study for Croatia. Energy, 2014, 70, 325-337.	4.5	36
242	Will thermal power plants with CCS play a role in Brazil's future electric power generation?. International Journal of Greenhouse Gas Control, 2014, 24, 115-123.	2.3	52

243 Electricity decarbonisation pathways for 2050 in Portugal: A TIMES (The Integrated MARKAL-EFOM) Tj ETQq0 0 0 rgBT /Overlogk 10 Tf 5

244	Modelling the Hungarian energy system – The first step towards sustainable energy planning. Energy, 2014, 69, 58-66.	4.5	55
245	A conceptual framework to support solar PV simulation using an open-BIM data exchange standard. Automation in Construction, 2014, 37, 166-181.	4.8	61
246	Integrated scenarios for energy: A methodology for the short term. Futures, 2014, 55, 41-57.	1.4	44
247	Advances and challenges in ORC systems modeling for low grade thermal energy recovery. Applied Energy, 2014, 121, 79-95.	5.1	167
248	Producing, storing, using and selling renewable energy: The best mix for the small medium industry. Computers in Industry, 2014, 65, 408-418.	5.7	15
249	A powerful visualization technique for electricity supply and demand at industrial sites with combined heat and power and wind generation. Renewable and Sustainable Energy Reviews, 2014, 31, 860-869.	8.2	12
250	Renewable energy scenarios in the Portuguese electricity system. Energy, 2014, 69, 51-57.	4.5	111
251	How to evaluate performance of net zero energy building – A literature research. Energy, 2014, 71, 1-16.	4.5	251
252	A review on Integrated Renewable Energy System based power generation for stand-alone applications: Configurations, storage options, sizing methodologies and control. Renewable and Sustainable Energy Reviews, 2014, 38, 99-120.	8.2	593
253	Sustainable energy systems in an imaginary island. Renewable and Sustainable Energy Reviews, 2014, 37, 229-242.	8.2	20
254	Towards a flexible energy system – A case study for Inland Norway. Applied Energy, 2014, 130, 41-50.	5.1	45
255	Sustainability index approach as a selection criteria for energy storage system of an intermittent renewable energy source. Applied Energy, 2014, 136, 909-920.	5.1	69
256	Adding value with CLEWS – Modelling the energy system and its interdependencies for Mauritius. Applied Energy, 2014, 113, 1434-1445.	5.1	75

#	Article	IF	CITATIONS
257	Sunâ€ŧrackers profitability analysis in Spain. Progress in Photovoltaics: Research and Applications, 2014, 22, 1010-1022.	4.4	8
258	GIS-Based Planning and Modeling for Renewable Energy: Challenges and Future Research Avenues. ISPRS International Journal of Geo-Information, 2014, 3, 662-692.	1.4	104
259	Energy system modelling – interactions and synergies in a highly renewable Pan-European power system. EPJ Web of Conferences, 2014, 79, 00001.	0.1	1
260	Long-Term Electricity Supply-Demand Planning Simulation Using TEEP Model. , 2015, , .		0
261	Technoâ€economic analysis of hybrid <scp>PV</scp> –diesel–battery and <scp>PV</scp> –wind–diesel–battery power systems for mobile <scp>BTS</scp> : the way forward for rural development. Energy Science and Engineering, 2015, 3, 271-285.	1.9	158
263	Iranian electrical production and consumption system modeling: A theoretical study for investigation of possible scenarios. , 2015, , .		2
264	A multi criterion analysis for renewable energy integration process of a standalone hybrid energy system with internal combustion generator. Journal of Renewable and Sustainable Energy, 2015, 7, 043128.	0.8	18
265	Optimization of Renewable Energy Power Systems for Remote Communities. , 2015, , .		1
266	Techno-economic analysis and performance assessment of standalone photovoltaic/wind/hybrid power system in Lakshadweep islands of India. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	25
267	A multiobjective optimization framework for design of integrated biorefineries under uncertainty. AICHE Journal, 2015, 61, 3208-3222.	1.8	37
268	Feasibility Study of a Solar-Powered Electric Vehicle Charging Station Model. Energies, 2015, 8, 13265-13283.	1.6	71
270	A comparative study of district and individual energy systems providing electrical-based heating, cooling, and domestic hot water to a low-energy use residential community. Energy and Buildings, 2015, 92, 306-312.	3.1	19
271	Sustainable energy options for a low carbon demonstration city project in Shenzhen, China. Journal of Renewable and Sustainable Energy, 2015, 7, 023122.	0.8	12
272	Renewable energy sources insertion in a timber industry — Case study. , 2015, , .		1
273	External Economic Effects of the Development of Energy Sector: Evaluation Methodologies and their Application. Procedia, Social and Behavioral Sciences, 2015, 213, 142-147.	0.5	1
274	A review of computer tools for analyzing the impact of electric vehicles on power distribution. , 2015, , .		8
275	Stakeholder-oriented Energy Planning Support in Cities. Energy Procedia, 2015, 78, 1841-1846.	1.8	4
276	An assessment of the variability of wind energy. , 2015, , .		0

	CITA	CITATION REPORT	
#	Article	IF	Citations
277	A Review of Hybrid Solar PV and Wind Energy System. Smart Science, 2015, 3, 127-138.	1.9	131
278	System level cost and environmental performance of integrated energy systems: An assessment of low-carbon scenarios for the UK. , 2015, , .		8
279	Can Energy Systems Models Address the Resource Nexus?. Energy Procedia, 2015, 83, 279-288.	1.8	18
280	Review of demand side management modelling for application to renewables integration in Australian power markets. , 2015, , .		5
281	Optimization in microgrids with hybrid energy systems – A review. Renewable and Sustainable Energy Reviews, 2015, 45, 431-446.	8.2	501
282	Modelling the impacts of variable renewable sources on the power sector: Reconsidering the typology of energy modelling tools. Energy, 2015, 80, 486-495.	4.5	125
283	Operational optimization and demand response of hybrid renewable energy systems. Applied Energy, 2015, 143, 324-335.	5.1	230
284	Design optimization of a polygeneration plant producing power, heat, and lignocellulosic ethanol. Energy Conversion and Management, 2015, 91, 353-366.	4.4	21
285	Supporting security and adequacy in future energy systems: The need to enhance long-term energy system models to better treat issues related to variability. International Journal of Energy Research, 2015, 39, 377-396.	2.2	56
286	Modelling the energy system of Pécs – The first step towards a sustainable city. Energy, 2015, 80, 373-387.	4.5	36
287	Energy mix optimization from an energy security perspective. Energy Conversion and Management, 2015, 90, 300-314.	4.4	48
288	Day charging electric vehicles with excess solar electricity for a sustainable energy system. Energy, 2015, 80, 263-274.	4.5	77
289	A novel framework for optimization of a grid independent hybrid renewable energy system: A case study of Iran. Solar Energy, 2015, 112, 383-396.	2.9	168
290	Large combined heat and power plants in sustainable energy systems. Applied Energy, 2015, 142, 389-3	395. 5.1	85
291	Correlation analysis on wind and hydro resources with electricity demand and prices in New Zealand. Applied Energy, 2015, 137, 445-462.	5.1	46
292	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.	8.2	23
293	Wind Integration into Energy Systems with a High Share of Nuclear Power—What Are the Compromises?. Energies, 2015, 8, 2493-2527.	1.6	27
294	Reviewing EnergyPLAN simulations and performance indicator applications in EnergyPLAN simulations. Applied Energy, 2015, 154, 921-933.	5.1	187

#	Article	IF	CITATIONS
295	A general spatio-temporal model of energy systems with a detailed account of transport and storage. Computers and Chemical Engineering, 2015, 80, 155-176.	2.0	82
296	Long term outlook of primary energy consumption of the Italian thermoelectric sector: Impact of fuel and carbon prices. Energy, 2015, 87, 153-164.	4.5	26
297	An integrated scenario analysis for future zero-carbon energy system. International Journal of Energy Research, 2015, 39, 993-1010.	2.2	9
298	A comparative study of different dynamic process simulation codes for combined cycle power plants – Part B: Start-up procedure. Fuel, 2015, 153, 707-716.	3.4	35
300	Heat roadmap China: New heat strategy to reduce energy consumption towards 2030. Energy, 2015, 81, 274-285.	4.5	130
301	Multi-objective, multi-period optimization of district energy systems: IV – A case study. Energy, 2015, 84, 365-381.	4.5	70
302	Comparison of single- and multiple-distributed generation concepts in terms of power loss, voltage profile, and line flows under uncertain scenarios. Renewable and Sustainable Energy Reviews, 2015, 48, 317-327.	8.2	25
303	Exergy transition planning for net-zero districts. Energy, 2015, 92, 515-531.	4.5	37
304	Computational optimization techniques applied to microgrids planning: A review. Renewable and Sustainable Energy Reviews, 2015, 48, 413-424.	8.2	288
305	Climate services for marine applications in Europe. Earth Perspectives Transdisciplinarity Enabled, 2015, 2, .	1.4	29
306	Demand response modeling: A comparison between tools. Applied Energy, 2015, 146, 288-297.	5.1	67
307	The optimum is not enough: A near-optimal solution paradigm for energy systems synthesis. Energy, 2015, 82, 446-456.	4.5	81
308	Higher renewable energy integration into the existing energy system of Finland – Is there any maximum limit?. Energy, 2015, 92, 244-259.	4.5	83
309	Simulation-based optimization of sustainable national energy systems. Energy, 2015, 91, 1087-1098.	4.5	59
310	Energy security, policy and technology in South East Europe: Presenting and applying an energy security index to Croatia. Energy, 2015, 90, 494-507.	4.5	37
311	Long term individual load forecast under different electrical vehicles uptake scenarios. Applied Energy, 2015, 157, 699-709.	5.1	30
312	A comparative study of a wind hydro hybrid system with water storage capacity: Conventional reservoir or pumped storage plant?. Journal of Energy Storage, 2015, 4, 96-105.	3.9	60
313	Two-stage Optimization Model Used for Community Energy Planning. Energy Procedia, 2015, 75, 2916-2921.	1.8	4

#	Article	IF	CITATIONS
314	Thermal power plant operating regimes in future British power systems with increasing variable renewable penetration. Energy Conversion and Management, 2015, 105, 977-985.	4.4	21
315	Strategic energy planning for large-scale energy systems: A modelling framework to aid decision-making. Energy, 2015, 90, 173-186.	4.5	46
316	Hybrid wind/photovoltaic energy system developments: Critical review and findings. Renewable and Sustainable Energy Reviews, 2015, 52, 1135-1147.	8.2	188
317	A multi-period, multi-regional generation expansion planning model incorporating unit commitment constraints. Applied Energy, 2015, 158, 310-331.	5.1	165
318	Power Generation and Cogeneration Management Algorithm with Renewable Energy Integration. Energy Procedia, 2015, 74, 1394-1401.	1.8	14
319	A review of modelling approaches and tools for the simulation of district-scale energy systems. Renewable and Sustainable Energy Reviews, 2015, 52, 1391-1404.	8.2	371
320	A review of multi-energy system planning and optimization tools for sustainable urban development. , 2015, , .		37
321	Modeling and optimization of building mix and energy supply technology for urban districts. Applied Energy, 2015, 159, 161-177.	5.1	66
322	Possible energy futures for Brazil and Latin America in conservative and stringent mitigation pathways up to 2050. Technological Forecasting and Social Change, 2015, 98, 186-210.	6.2	33
323	Optimal control of a wind generator system using non-squares estimators. , 2015, , .		2
324	Increasing the Flexibility of Combined Heat and Power for Wind Power Integration in China: Modeling and Implications. IEEE Transactions on Power Systems, 2015, 30, 1848-1857.	4.6	459
325	Combined scheduling and capacity planning of electricity-based ammonia production to integrate renewable energies. European Journal of Operational Research, 2015, 241, 851-862.	3.5	73
326	Methods and tools for community energy planning: A review. Renewable and Sustainable Energy Reviews, 2015, 42, 1335-1348.	8.2	141
327	Using renewables to hedge against future electricity industry uncertainties—An Australian case study. Energy Policy, 2015, 76, 43-56.	4.2	26
328	Trends toward 100% renewable electricity supply in Germany and Europe: a paradigm shift in energy policies. Wiley Interdisciplinary Reviews: Energy and Environment, 2015, 4, 74-97.	1.9	52
329	Overview of current development in electrical energy storage technologies and the application potential in power system operation. Applied Energy, 2015, 137, 511-536.	5.1	2,654
330	A long-term analysis of pumped hydro storage to firm wind power. Applied Energy, 2015, 137, 638-648.	5.1	89
331	Techno-Economic Performance Evaluation and Enhancement for a PV – Diesel Hybrid System. Applied Mechanics and Materials, 2016, 839, 130-135.	0.2	1

#	Article	IF	CITATIONS
332	Simplified Method of Optimal Sizing of a Renewable Energy Hybrid System for Schools. Sustainability, 2016, 8, 1134.	1.6	8
333	Analysis of the Driving Factors and Contributions to Carbon Emissions of Energy Consumption from the Peak Volume and Time Based on LEAP. Sustainability, 2016, 8, 513.	1.6	14
334	Preâ€feasibility Assessment of Small Hydropower Projects in Turkey by RETScreen. Journal - American Water Works Association, 2016, 108, E269.	0.2	4
335	Comparative Analysis of On- and Off-Grid Electrification: The Case of Two South Korean Islands. Sustainability, 2016, 8, 350.	1.6	18
336	Optimal Hybrid Renewable Airport Power System: Empirical Study on Incheon International Airport, South Korea. Sustainability, 2016, 8, 562.	1.6	13
337	Sustainable Energy Transitions in China: Renewable Options and Impacts on the Electricity System. Energies, 2016, 9, 980.	1.6	53
338	Analysis of renewable energy sources and electric vehicle penetration into energy systems predominantly based on lignite. European Physical Journal: Special Topics, 2016, 225, 595-608.	1.2	5
339	Environmental impacts of high penetration renewable energy scenarios for Europe. Environmental Research Letters, 2016, 11, 014012.	2.2	81
340	Impact of high penetration of wind and solar PV generation on the country power system load: The case study of Croatia. Applied Energy, 2016, 184, 1470-1482.	5.1	49
341	XEMS13: An hybrid-Energy generation Management System. , 2016, , .		3
342	Incorporating risk in forest sector modeling – state of the art and promising paths for future research. Scandinavian Journal of Forest Research, 2016, 31, 719-727.	0.5	7
343	A generation-attraction model for renewable energy flows in Italy: A complex network approach. European Physical Journal: Special Topics, 2016, 225, 1913-1927.	1.2	3
344	An optimization and management tool for complex multi-generation systems. , 2016, , .		3
345	Long-term energy planning of Croatian power system using multi-objective optimization with focus on renewable energy and integration of electric vehicles. Applied Energy, 2016, 184, 1493-1507.	5.1	90
346	Smart Energy Europe: The technical and economic impact of one potential 100% renewable energy scenario for the European Union. Renewable and Sustainable Energy Reviews, 2016, 60, 1634-1653.	8.2	549
347	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.	0.5	Ο
348	Energy performance assessment of a polygeneration plant in different weather conditions through simulation tools. Energy and Buildings, 2016, 124, 7-18.	3.1	22

		CITATION REPORT		
#	Article	IF	CITATIONS	
350	Does cost optimization approximate the real-world energy transition?. Energy, 2016, 106, 182-19	3. 4.5	146	
351	100% electrification and renewable based Ethiopian power sector development strategies. , 2016	,,.	1	
352	Distributionally robust hydro-thermal-wind economic dispatch. Applied Energy, 2016, 173, 511-52	19. 5.1	121	
353	A review of computer tools for modeling electric vehicle energy requirements and their impact on power distribution networks. Applied Energy, 2016, 172, 337-359.	5.1	94	
354	Alternative low-carbon electricity pathways in Switzerland and it's neighbouring countries un nuclear phase-out scenario. Applied Energy, 2016, 172, 152-168.	der a 5.1	63	
355	Environmental assessment of energy production from landfill gas plants by using Long-range Ener Alternative Planning (LEAP) and IPCC methane estimation methods: A case study of Tehran. Susta Energy Technologies and Assessments, 2016, 16, 33-42.	gy inable 1.7	32	
356	A review on sizing methodologies of photovoltaic array and storage battery in a standalone photovoltaic system. Energy Conversion and Management, 2016, 120, 430-448.	4.4	208	
357	Nuclear and intermittent renewables: Two compatible supply options? The case of the French pov mix. Energy Policy, 2016, 95, 135-146.	ver 4.2	40	
358	Estimating CO2 emissions reduction from renewable energy use in Italy. Renewable Energy, 2016 220-232.	, 96, 4.3	29	
359	Socioeconomic potential for introducing large-scale heat pumps in district heating in Denmark. Journal of Cleaner Production, 2016, 139, 219-229.	4.6	69	
360	Optimization of building envelope design for nZEBs in Mediterranean climate: Performance analys residential case study. Applied Energy, 2016, 183, 938-957.	sis of 5.1	162	
361	Modelling of integrated multi-energy systems: Drivers, requirements, and opportunities. , 2016, ,		54	
362	Modelling concentrated solar power (CSP) in the Brazilian energy system: A soft-linked model coupling approach. Energy, 2016, 116, 265-280.	4.5	37	
363	Optimal planning of the energy production mix in smart districts including renewable and cogeneration power plants. , 2016, , .		5	
364	Raising awareness in model-based energy scenario studies—a transparency checklist. Energy, Sustainability and Society, 2016, 6, .	1.7	51	
365	A multi-period power generation planning model incorporating the non-carbon external costs: A c study of China. Applied Energy, 2016, 183, 1333-1345.	ase 5.1	53	
366	A decision support system for strategic maintenance planning in offshore wind farms. Renewable Energy, 2016, 99, 784-799.	4.3	37	
367	Assessment of renewable energy systems combining techno-economic optimization with energy scenario analysis. Energy, 2016, 112, 729-741.	4.5	88	

#	Article	IF	CITATIONS
368	A hybrid lithium-ion battery model for system-level analyses. International Journal of Energy Research, 2016, 40, 1576-1592.	2.2	14
369	Numerical investigation of dust pollution on a solar photovoltaic (PV) system mounted on an isolated building. Applied Energy, 2016, 180, 27-36.	5.1	95
370	Prosumers' optimal DER investments and DR usage for thermal and electrical loads in isolated microgrids. Electric Power Systems Research, 2016, 140, 473-484.	2.1	14
371	Improved flexibility with large-scale variable renewable power in cities through optimal demand side management and power-to-heat conversion. Energy Conversion and Management, 2016, 126, 649-661.	4.4	122
372	Usability of energy performance assessment tools for different use purposes with the focus on refurbishment projects. Energy and Buildings, 2016, 127, 217-228.	3.1	6
373	Vision and initial feasibility analysis of a recarbonised Finnish energy system for 2050. Renewable and Sustainable Energy Reviews, 2016, 66, 517-536.	8.2	117
374	Developing a thermally compensated electrolyser model coupled with pressurised hydrogen storage for modelling the energy efficiency of hydrogen energy storage systems and identifying their operation performance issues. Renewable and Sustainable Energy Reviews, 2016, 66, 27-37.	8.2	19
375	Novel Metal Chalcogenide SnSSe as a Highâ€Capacity Anode for Sodiumâ€Ion Batteries. Advanced Materials, 2016, 28, 8645-8650.	11.1	123
376	Optimal design and operation of an integrated multi-energy system for smart cities. , 2016, , .		7
377	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.	3.8	64
378	A review on optimization techniques for sizing of solar-wind hybrid energy systems. International Journal of Green Energy, 2016, 13, 1564-1578.	2.1	40
379	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.	1.8	43
380	National pathways to the Sustainable Development Goals (SDGs): A comparative review of scenario modelling tools. Environmental Science and Policy, 2016, 66, 199-207.	2.4	203
381	A case study: Validating a LabVIEW simulation models presentation of fundamental principles in emerging renewable energy systems. , 2016, , .		1
382	Seeking the sustainable power mix for Central Europe. , 2016, , .		1
383	Optimal trade-offs between energy efficiency improvements and additional renewable energy supply: A review of international experiences. , 2016, , .		4
384	A multiple perspective modeling and simulation approach for renewable energy policy evaluation. Computers and Industrial Engineering, 2016, 102, 280-293.	3.4	8
385	Integration of large-scale heat pumps in the district heating systems of Greater Copenhagen. Energy, 2016, 107, 321-334.	4.5	105

#	Article	IF	CITATIONS
386	Meta-analysis of energy scenario studies: Example of electricity scenarios for Switzerland. Energy, 2016, 109, 998-1015.	4.5	29
387	Incorporating domain knowledge into the optimization of energy systems. Applied Soft Computing Journal, 2016, 47, 483-493.	4.1	20
388	Heat Roadmap Europe: Identifying the balance between saving heat and supplying heat. Energy, 2016, 115, 163-1671.	4.5	66
389	Scenario-based comparative assessment of potential future electricity systems – A new methodological approach using Germany in 2050 as an example. Applied Energy, 2016, 171, 555-580.	5.1	32
390	Workflow automation for combined modeling of buildings and district energy systems. Energy, 2016, 117, 478-484.	4.5	41
391	Spatial and temporal variations of marginal electricity generation: the case of the Finnish, Nordic, and European energy systems up to 2030. Journal of Cleaner Production, 2016, 126, 515-525.	4.6	41
392	Viability study of the use of grid connected photovoltaic system in agriculture: Case of Algerian dairy farms. Renewable and Sustainable Energy Reviews, 2016, 63, 333-345.	8.2	45
393	Solutions for optimizing renewable power generation systems at Kyung-Hee University׳s Global Campus, South Korea. Renewable and Sustainable Energy Reviews, 2016, 58, 439-449.	8.2	43
394	A general modeling framework to evaluate energy, economy, land-use and GHG emissions nexus for bioenergy exploitation. Applied Energy, 2016, 178, 223-249.	5.1	25
395	A review of the development of Smart Grid technologies. Renewable and Sustainable Energy Reviews, 2016, 59, 710-725.	8.2	556
396	A method for aggregating external operating conditions in multi-generation system optimization models. Applied Energy, 2016, 166, 59-75.	5.1	23
397	A heuristic approach for optimal sizing of ESS coupled with intermittent renewable sources systems. Renewable Energy, 2016, 91, 155-165.	4.3	18
398	Real-time integration of optimal generation scheduling with MPC for the energy management of a renewable hydrogen-based microgrid. Applied Energy, 2016, 166, 96-106.	5.1	154
399	An integrated multi-objective optimization model for determining the optimal solution in implementing the rooftop photovoltaic system. Renewable and Sustainable Energy Reviews, 2016, 57, 822-837.	8.2	65
400	Estimating the electricity prices, generation costs and CO2 emissions of large scale wind energy exports from Ireland to Great Britain. Energy Policy, 2016, 91, 38-48.	4.2	31
401	Regional level approach for increasing energy efficiency. Applied Energy, 2016, 163, 295-303.	5.1	20
402	Decision making in renewable energy investments: A review. Renewable and Sustainable Energy Reviews, 2016, 55, 885-898.	8.2	303
403	Application of system dynamics approach in electricity sector modelling: A review. Renewable and Sustainable Energy Reviews, 2016, 56, 29-37.	8.2	99

		CITATION REPORT		
#	Article		IF	Citations
404	Booster heat pumps and central heat pumps in district heating. Applied Energy, 2016,	184, 1374-1388.	5.1	134
405	Proposing an open-source model for unconventional participation to energy planning. Research and Social Science, 2016, 15, 12-33.	Energy	3.0	10
406	Interdisciplinary research in climate and energy sciences. Wiley Interdisciplinary Reviev Environment, 2016, 5, 49-56.	vs: Energy and	1.9	18
407	Zero carbon energy system of South East Europe in 2050. Applied Energy, 2016, 184,	1517-1528.	5.1	156
408	The implications of heat electrification on national electrical supply-demand balance u 2050 energy scenarios. Energy, 2016, 98, 253-270.	nder published	4.5	45
409	Analysis on the level of contribution to the national greenhouse gas reduction target i transportation sector using LEAP model. Renewable and Sustainable Energy Reviews, 2	n Korean 2016, 60, 549-559.	8.2	81
410	Off-grid systems for rural electrification in developing countries: Definitions, classificat comprehensive literature review. Renewable and Sustainable Energy Reviews, 2016, 58		8.2	294
411	MILP model for long-term energy mix planning with consideration of power system res Energy, 2016, 169, 93-111.	erves. Applied	5.1	73
412	Large-scale integration of renewable energies and impact on storage demand in a Europower system of 2050—Sensitivity study. Journal of Energy Storage, 2016, 6, 1-10.	pean renewable	3.9	136
413	An optimization method for multi-area combined heat and power production with pov network. Applied Energy, 2016, 168, 248-256.	ver transmission	5.1	49
414	Energy benchmarking for shopping centers in Gulf Coast region. Energy Policy, 2016, 9	91, 247-255.	4.2	34
415	A review of energy systems models in the UK: Prevalent usage and categorisation. App 169, 607-628.	lied Energy, 2016,	5.1	187
416	Equilibrium scheduling of vehicle-to-grid technology using activity based modelling. Tra Research Part C: Emerging Technologies, 2016, 65, 79-96.	ansportation	3.9	31
417	An optimization framework for the integrated planning of generation and transmission interconnected power systems. Applied Energy, 2016, 170, 1-21.	expansion in	5.1	96
418	A review of policy analysis purpose and capabilities of electricity system models. Renev Sustainable Energy Reviews, 2016, 59, 1531-1544.	vable and	8.2	28
419	A review of the North Seas offshore grid modeling: Current and future research. Renev Sustainable Energy Reviews, 2016, 60, 129-143.	vable and	8.2	40
420	A novel approach for optimal combinations of wind, PV, and energy storage system in isolated communities. Applied Energy, 2016, 170, 101-115.	diesel-free	5.1	67
421	A model of optimization for local energy infrastructure development. Energy, 2016, 96	, 625-643.	4.5	10

#	Article	IF	CITATIONS
422	DESOD: a mathematical programming tool to optimally design a distributed energy system. Energy, 2016, 100, 298-309.	4.5	56
423	A review of renewable energy applications in buildings in the hot-summer and warm-winter region of China. Renewable and Sustainable Energy Reviews, 2016, 57, 327-336.	8.2	38
424	Looking the wrong way: Bias, renewable electricity, and energy modelling in the United States. Energy, 2016, 94, 533-541.	4.5	48
425	Combining multi-objective evolutionary algorithms and descriptive analytical modelling in energy scenario design. Applied Energy, 2016, 164, 140-151.	5.1	80
426	Optimal operation of insular electricity grids under high RES penetration. Renewable Energy, 2016, 86, 1308-1316.	4.3	24
427	Impact of the level of temporal and operational detail in energy-system planning models. Applied Energy, 2016, 162, 631-643.	5.1	233
428	Energy management and planning in smart cities. Renewable and Sustainable Energy Reviews, 2016, 55, 273-287.	8.2	354
429	An analysis of the optimum renewable energy portfolio using the bottom–up model: Focusing on the electricity generation sector in South Korea. Renewable and Sustainable Energy Reviews, 2016, 53, 319-329.	8.2	50
430	Optimal operation of the integrated electrical and heating systems to accommodate the intermittent renewable sources. Applied Energy, 2016, 167, 244-254.	5.1	211
431	Sensitivity analysis of a photovoltaic solar plant in Chile. Renewable Energy, 2016, 87, 145-153.	4.3	30
432	Modelling, assessment and Sankey diagrams of integrated electricity-heat-gas networks in multi-vector district energy systems. Applied Energy, 2016, 167, 336-352.	5.1	229
433	Co-optimization of electricity transmission and generation resources for planning and policy analysis: review of concepts and modeling approaches. Energy Systems, 2016, 7, 297-332.	1.8	95
434	Integrating GIS databases and ICT applications for the design of energy circulation systems. Journal of Cleaner Production, 2016, 114, 224-232.	4.6	19
435	MIP approach for designing heating systems in residential buildings and neighbourhoods. Journal of Building Performance Simulation, 2016, 9, 316-330.	1.0	20
436	The impacts on climate mitigation costs of considering curtailment and storage of variable renewable energy in a general equilibrium model. Energy Economics, 2017, 64, 627-637.	5.6	34
437	Modelling a hydropower plant with reservoir with the micropower optimisation model (HOMER). International Journal of Sustainable Energy, 2017, 36, 654-667.	1.3	14
438	Fault detection and power distribution optimization of smart grids based on hybrid Petri net. Energy Systems, 2017, 8, 465-493.	1.8	5
439	Electric vehicles and India's low carbon passenger transport: a long-term co-benefits assessment. Journal of Cleaner Production, 2017, 146, 139-148.	4.6	132

#	Article	IF	CITATIONS
440	Designing Energy Supply Chains: Dynamic Models for Energy Security and Economic Prosperity. Production and Operations Management, 2017, 26, 1120-1141.	2.1	21
441	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.	4.5	25
442	GIS-based urban energy systems models and tools: Introducing a model for the optimisation of flexibilisation technologies in urban areas. Applied Energy, 2017, 191, 1-9.	5.1	106
443	Prospective analysis of energy security: A practical life-cycle approach focused on renewable power generation and oriented towards policy-makers. Applied Energy, 2017, 190, 891-901.	5.1	60
444	Combining an accelerated deployment of bioenergy and land use strategies: Review and insights for a post-conflict scenario in Colombia. Renewable and Sustainable Energy Reviews, 2017, 73, 159-177.	8.2	54
445	Performance indices evaluation and techno economic analysis of photovoltaic power plant for the application of isolated India's island. Sustainable Energy Technologies and Assessments, 2017, 20, 9-24.	1.7	46
446	Techno-economic viability analysis of fixed-tilt and two axis tracking stand-alone photovoltaic power system for Indian bio-climatic classification zones. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	18
447	Spatial matching of large-scale grid-connected photovoltaic power generation with utility demand in Peninsular Malaysia. Applied Energy, 2017, 191, 663-688.	5.1	36
448	Polish energy policy 2050 – An instrument to develop a diversified and sustainable electricity generation mix in coal-based energy system. Renewable and Sustainable Energy Reviews, 2017, 74, 51-70.	8.2	66
449	Integrated modelling of variable renewable energy-based power supply in Europe. Energy, 2017, 123, 173-188.	4.5	250
450	Optimal sizing of stand-alone photovoltaic systems in residential buildings. Energy, 2017, 126, 573-584.	4.5	81
451	Current software barriers to advanced model-based control design for energy-efficient buildings. Renewable and Sustainable Energy Reviews, 2017, 73, 1031-1040.	8.2	31
452	Regional feasibility study on district sewage heat supply in Tokyo with geographic information system. Sustainable Cities and Society, 2017, 32, 235-246.	5.1	14
453	A review on recent size optimization methodologies for standalone solar and wind hybrid renewable energy system. Energy Conversion and Management, 2017, 143, 252-274.	4.4	440
454	Renewable energy: Present research and future scope of Artificial Intelligence. Renewable and Sustainable Energy Reviews, 2017, 77, 297-317.	8.2	216
455	Optimal management of a complex DHC plant. Energy Conversion and Management, 2017, 145, 386-397.	4.4	17
456	A stand-alone hybrid renewable energy system assessment using cost optimization method. , 2017, , .		11
457	Designing Rural Electrification Solutions Considering Hybrid Energy Systems for Papua New Guinea. Energy Procedia, 2017, 110, 1-7.	1.8	12

	CITATION RE	PORT	
# 458	ARTICLE Photurgen: The open source software for the analysis and design of hybrid solar wind energy systems in the Caribbean region: A brief introduction to its development policy. Energy Reports, 2017, 3, 61-69.	IF 2.5	CITATIONS 5
459	Integration of smart grid mechanisms on microgrids energy modelling. Energy, 2017, 129, 321-330.	4.5	17
460	Revisiting the techno-economic analysis process for building-mounted, grid-connected solar photovoltaic systems: Part one – Review. Renewable and Sustainable Energy Reviews, 2017, 74, 1379-1393.	8.2	37
461	Energy efficiency improvement opportunities and associated greenhouse gas abatement costs for the residential sector. Energy, 2017, 118, 795-807.	4.5	36
462	Communicating energy system modelling to the wider public: An analysis of German media coverage. Renewable and Sustainable Energy Reviews, 2017, 80, 1389-1398.	8.2	10
463	A review of energy and power planning and policies of Pakistan. Renewable and Sustainable Energy Reviews, 2017, 79, 110-127.	8.2	154
464	Smart energy and smart energy systems. Energy, 2017, 137, 556-565.	4.5	679
465	A systems approach to quantifying the value of power generation and energy storage technologies in future electricity networks. Computers and Chemical Engineering, 2017, 107, 247-256.	2.0	108
466	Performance evaluation of stand alone, grid connected and hybrid renewable energy systems for rural application: A comparative review. Renewable and Sustainable Energy Reviews, 2017, 78, 1378-1389.	8.2	171
467	Benefits of DSM measures in the future Finnish energy system. Energy, 2017, 137, 729-738.	4.5	21
468	Optimization and integration of hybrid renewable energy hydrogen fuel cell energy systems – A critical review. Applied Energy, 2017, 202, 348-364.	5.1	280
469	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.	8.2	109
470	A goal programming based model system for community energy plan. Energy, 2017, 134, 893-901.	4.5	15
471	The impact of CO2-costs on biogas usage. Energy, 2017, 134, 289-300.	4.5	24
472	On the way towards smart energy supply in cities: The impact of interconnecting geographically distributed district heating grids on the energy system. Energy, 2017, 137, 941-960.	4.5	43
473	H2RES2 simulator. A new solution for hydrogen hybridization with renewable energy sources-based systems. International Journal of Hydrogen Energy, 2017, 42, 13510-13531.	3.8	22
474	Open-source energy planning tool with easy-to-parameterize components for the conception of polygeneration systems. Energy, 2017, 126, 756-765.	4.5	8
475	Decarbonizing the Greek road transport sector using alternative technologies and fuels. Thermal Science and Engineering Progress, 2017, 1, 15-24.	1.3	26

#	Article	IF	Citations
476	Integrating short term variations of the power system into integrated energy system models: A methodological review. Renewable and Sustainable Energy Reviews, 2017, 76, 839-856.	8.2	193
477	The impact of policy actions and future energy prices on the cost-optimal development of the energy system in Norway and Sweden. Energy Policy, 2017, 106, 85-102.	4.2	32
478	Towards a 90% renewable energy future: A case study of an island in the South China Sea. Energy Conversion and Management, 2017, 142, 28-41.	4.4	59
479	Comparison of energy performance between PV double skin facades and PV insulating glass units. Applied Energy, 2017, 194, 148-160.	5.1	152
480	Characterization and analysis of specific energy consumption in the Brazilian agricultural sector. International Journal of Environmental Science and Technology, 2017, 14, 2077-2092.	1.8	6
481	Conceptualizing sustainable development of conventional power systems in developing countries – A contribution towards low carbon future. Energy, 2017, 126, 112-123.	4.5	20
482	Ethiopian power sector development: Renewable based universal electricity access and export strategies. Renewable and Sustainable Energy Reviews, 2017, 75, 11-20.	8.2	40
483	Microgrid sizing with combined evolutionary algorithm and MILP unit commitment. Applied Energy, 2017, 188, 547-562.	5.1	182
484	Market designs for a 100% renewable energy system: Case isolated power system of Israel. Energy, 2017, 119, 266-277.	4.5	26
485	Techno-economic evaluation of grid connected PV system for households with feed in tariff and time of day tariff regulation in New Delhi – A sustainable approach. Renewable and Sustainable Energy Reviews, 2017, 70, 822-835.	8.2	96
486	Development of an electricity system model allowing dynamic and marginal approaches in LCA—tested in the French context of space heating in buildings. International Journal of Life Cycle Assessment, 2017, 22, 1177-1190.	2.2	41
487	Modeling hybrid solar gas-turbine power plants: Thermodynamic projection of annual performance and emissions. Energy Conversion and Management, 2017, 134, 314-326.	4.4	23
488	Trade-offs between electrification and climate change mitigation: An analysis of the Java-Bali power system in Indonesia. Applied Energy, 2017, 208, 1020-1037.	5.1	53
489	Challenges in top-down and bottom-up soft-linking: Lessons from linking a Swedish energy system model with a CGE model. Energy, 2017, 141, 803-817.	4.5	85
490	Optimal energy performance and comparison of open rack and roof mount mono c-Si photovoltaic Systems. Energy Procedia, 2017, 117, 136-144.	1.8	29
491	Performance analysis of 100 kWp grid connected Si-poly photovoltaic system using PVsyst simulation tool. Energy Procedia, 2017, 117, 180-189.	1.8	114
492	Implementation of local climate action plans: Copenhagen – Towards a carbon-neutral capital. Journal of Cleaner Production, 2017, 167, 406-415.	4.6	33
493	A simultaneous calibration and parameter ranking method for building energy models. Applied Energy, 2017, 206, 657-666.	5.1	52

		CITATION REPORT		
#	Article		IF	CITATIONS
494	Potential of district cooling in hot and humid climates. Applied Energy, 2017, 208, 49-	61.	5.1	50
495	Operational flexibility of future generation portfolios with high renewables. Applied En 206, 32-41.	ergy, 2017,	5.1	41
496	Integration of battery storage into the German electrical power system. IT - Informatio 2017, 59, 41-51.	n Technology,	0.6	0
497	Chronological operation simulation framework for regional power system under high p renewable energy using meteorological data. Applied Energy, 2017, 203, 816-828.	penetration of	5.1	83
498	Modeling of district load forecasting for distributed energy system. Applied Energy, 20	17, 204, 181-205.	5.1	91
499	Urban energy planning procedure for sustainable development in the built environmer available spatial approaches. Journal of Cleaner Production, 2017, 165, 811-827.	ıt: A review of	4.6	92
500	Modeling for diversifying electricity supply by maximizing renewable energy use in Ebir Japan. Sustainable Cities and Society, 2017, 34, 371-384.	10 city southern	5.1	52
502	Integrated energy security assessment. Energy, 2017, 138, 890-901.		4.5	50
503	Heat Roadmap Europe: Quantitative comparison between the electricity, heating, and for different European countries. Energy, 2017, 139, 580-593.	cooling sectors	4.5	76
504	Smart municipal energy grid within electricity market. Energy, 2017, 137, 1277-1285.		4.5	24
506	Impact of EV penetration in the interconnected urban environment of a smart city. Ene 2218-2233.	ergy, 2017, 141,	4.5	24
507	Decision making in the electricity sector using performance indicators. Energy, Ecolog Environment, 2017, 2, 60-84.	y and	1.9	6
508	District cooling network optimization with redundancy constraints in Singapore. Futur Environment, 2017, 3, 1.	e Cities and	0.6	10
509	Assessment of photovoltaic performance models for system simulation. Renewable an Energy Reviews, 2017, 72, 1104-1123.	d Sustainable	8.2	52
510	A conceptual framework for the analysis of the effect of institutions on biofuel supply Applied Energy, 2017, 185, 895-915.	chains.	5.1	29
511	Towards modern options of energy conservation in buildings. Renewable Energy, 2017	7, 101, 1194-1202.	4.3	56
512	Sizing and optimisation of a standalone hybrid system for electrification of a remote si Fares, Algeria. Advances in Materials and Processing Technologies, 2017, 3, 125-134.	ite at Ouled	0.8	2
513	A mixed integer linear programming approach for optimal DER portfolio, sizing, and pla multi-energy microgrids. Applied Energy, 2017, 187, 154-168.	acement in	5.1	196

#	Article	IF	CITATIONS
514	The case study of combined cooling heat and power and photovoltaic systems for building customers using HOMER software. Electric Power Systems Research, 2017, 143, 490-502.	2.1	40
515	An Optimization Framework for Power Systems Planning Considering Unit Commitment Constraints. , 2017, , 433-474.		2
516	Wind Energy Scenarios for the Simulation of the German Power System Until 2050: The Effect of Social and Ecological Factors. Progress in IS, 2017, , 167-180.	0.5	2
517	Optimal Design of Multiplant Cogeneration Systems with Uncertain Flaring and Venting. ACS Sustainable Chemistry and Engineering, 2017, 5, 675-688.	3.2	15
518	Standalone photovoltaic system assessment for major cities of United Arab Emirates based on simulated results. Journal of Cleaner Production, 2017, 142, 2722-2729.	4.6	39
519	Advances and New Trends in Environmental Informatics. Progress in IS, 2017, , .	0.5	4
520	Stakeholder-oriented energy planning support in cities. Sustainable Cities and Society, 2017, 28, 482-492.	5.1	10
521	Use of electric vehicles or hydrogen in the Danish transport sector in 2050?. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e233.	1.9	11
522	Multiple energy complementation based on distributed energy systems – Case study of Chongming county, China. Applied Energy, 2017, 192, 329-336.	5.1	46
523	How to meet EU GHG emission reduction targets? A model basedÂdecarbonization pathway for Europe's electricity supply systemÂuntil 2050. Energy Strategy Reviews, 2017, 15, 19-32.	3.3	128
524	Techno-economic analysis of a local district heating plant under fuel flexibility and performance. Energy Efficiency, 2017, 10, 613-624.	1.3	6
525	Mo.nalis.a: a methodological approach to identify how to meet thermal industrial needs using already available geothermal resources. Energy Efficiency, 2017, 10, 639-655.	1.3	3
526	Practical battery size optimization of a PV system by considering individual customer damage function. Renewable and Sustainable Energy Reviews, 2017, 67, 36-50.	8.2	29
527	Designing a Model for the Global Energy System—GENeSYS-MOD: An Application of the Open-Source Energy Modeling System (OSeMOSYS). Energies, 2017, 10, 1468.	1.6	127
528	The Long-Term Power System Evolution – First Optimisation Results. Energy Procedia, 2017, 135, 347-357.	1.8	3
529	A Meta Model Based Bayesian Approach for Building Energy Models Calibration. Energy Procedia, 2017, 143, 161-166.	1.8	15
530	MILP formulation for the optimal operation of the integrated gas and power system. , 2017, , .		1
531	An integrated design platform for BIPV system considering building information. , 2017, , .		1

#	Article	IF	Citations
532	CEMPL: A new domain-specific language for rapid modeling of cross-energy systems. , 2017, , .		2
533	Techno-Economic Feasibility Study of Autonomous Hybrid AC/DC Microgrid System. , 2017, , .		0
534	Simulation versus Optimisation: Theoretical Positions in Energy System Modelling. Energies, 2017, 10, 840.	1.6	168
535	A Methodology for Analysing Sustainability in Energy Scenarios. Sustainability, 2017, 9, 1590.	1.6	15
536	A Techno-Economic Study of an Entirely Renewable Energy-Based Power Supply for North America for 2030 Conditions. Energies, 2017, 10, 1171.	1.6	87
537	Exploring Marine Energy Potential in the UK Using a Whole Systems Modelling Approach. Energies, 2017, 10, 1251.	1.6	12
538	Lithium-Ion Battery Storage for the Grid—A Review of Stationary Battery Storage System Design Tailored for Applications in Modern Power Grids. Energies, 2017, 10, 2107.	1.6	480
539	Renewable Energy Potential by the Application of a Building Integrated Photovoltaic and Wind Turbine System in Global Urban Areas. Energies, 2017, 10, 2158.	1.6	13
540	Selecting Tools for Renewable Energy Analysis in Developing Countries: An Expanded Review. Frontiers in Energy Research, 2017, 5, .	1.2	27
541	Energy performance of optimally inclined free standing photovoltaic system. , 2017, , .		0
542	Residential load scheduling. , 2017, , .		1
543	Designing a Global Energy System Based on 100% Rwables for 2050: GENeSYS-MOD: An Application of the Open-Source Energy Modelling System (OSeMOSYS). SSRN Electronic Journal, 2017, , .	0.4	1
544	Energy Production Analysis and Optimization of Mini-Grid in Remote Areas: The Case Study of Habaswein, Kenya. Energies, 2017, 10, 2041.	1.6	46
545	Design of a residential microgrid in Lagos del Cacique, Bucaramanga, Colombia. Journal of Physics: Conference Series, 2017, 935, 012063.	0.3	0
546	Design of a Hybrid Microgrid for a Rural Community in Pacific Island Countries , 2017, , .		4
547	Opportunity and prospect analysis of RES utilization for sustainable development of Ekaterinburg city in Russia. IOP Conference Series: Earth and Environmental Science, 2017, 72, 012024.	0.2	0
548	Evaluating the Potential of Variable Renewable Energy for a Balanced Isolated Grid: A Japanese Case Study. Sustainability, 2017, 9, 119.	1.6	7
549	A model for an economic evaluation of energy systems using TRNSYS. Applied Energy, 2018, 215, 765-777.	5.1	22

#	Article	IF	CITATIONS
550	Exergy analysis of an integrated solid oxide electrolysis cell-methanation reactor for renewable energy storage. Applied Energy, 2018, 215, 371-383.	5.1	66
551	Optimal DHC energy supply harnessing its thermal mass. Applied Thermal Engineering, 2018, 133, 520-531.	3.0	2
552	Impact of the phase out of French nuclear reactors on the Italian power sector. Energy, 2018, 150, 722-734.	4.5	17
553	Computational tools for design, analysis, and management of residential energy systems. Applied Energy, 2018, 221, 535-556.	5.1	26
554	Assessment of long-term energy efficiency improvement and greenhouse gas emissions mitigation potentials in the chemical sector. Energy, 2018, 153, 231-247.	4.5	37
555	Methodology for sizing stand-alone hybrid systems: A case study of a traffic control system. Energy, 2018, 153, 870-881.	4.5	21
556	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.	5.1	89
557	A spatial electricity market model for the power system: The Kazakhstan case study. Energy, 2018, 149, 762-778.	4.5	20
558	Multi-objective optimization algorithm coupled to EnergyPLAN software: The EPLANopt model. Energy, 2018, 149, 213-221.	4.5	89
559	Future security of power supply in Germany-The role of stochastic power plant outages and intermittent generation. International Journal of Energy Research, 2018, 42, 1894-1913.	2.2	10
560	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.	5.1	84
561	Two-stage stochastic, large-scale optimization of a decentralized energy system: a case study focusing on solar PV, heat pumps and storage in a residential quarter. OR Spectrum, 2018, 40, 265-310.	2.1	20
562	Economic viability and production capacity of wind generated renewable hydrogen. International Journal of Hydrogen Energy, 2018, 43, 2621-2630.	3.8	214
563	Is coal extension a sensible option for energy planning? A combined energy systems modelling and life cycle assessment approach. Energy Policy, 2018, 114, 413-421.	4.2	29
564	e-BIM: a BIM-centric design and analysis software for Building Integrated Photovoltaics. Automation in Construction, 2018, 87, 127-137.	4.8	21
565	Energy management in South Asia. Energy Strategy Reviews, 2018, 21, 25-34.	3.3	66
566	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. IEEE Access, 2018, 6, 24925-24951.	2.6	79
567	Quantifying the impact of urban climate by extending the boundaries of urban energy system modeling. Applied Energy, 2018, 222, 847-860.	5.1	82

#	Article	IF	Citations
568	Active power reference tracking in electricity distribution grids over non-ideal communication networks. International Journal of Electrical Power and Energy Systems, 2018, 102, 122-130.	3.3	2
569	Optimization and multi-time scale modeling of pilot solar driven polygeneration system based on organic Rankine cycle. Applied Energy, 2018, 222, 396-409.	5.1	18
570	Synchronous enhancement of H2O/CO2 co-electrolysis and methanation for efficient one-step power-to-methane. Energy Conversion and Management, 2018, 165, 127-136.	4.4	26
571	A general mixed integer linear programming model for the design and operation of integrated urban energy systems. Journal of Cleaner Production, 2018, 191, 458-479.	4.6	52
572	Effects of particle sizes and tilt angles on dust deposition characteristics of a ground-mounted solar photovoltaic system. Applied Energy, 2018, 220, 514-526.	5.1	114
573	Towards the development of a net-zero energy district evaluation approach: A review of sustainable approaches and assessment tools. Sustainable Cities and Society, 2018, 39, 784-800.	5.1	60
574	Assessment of sustainable energy system configuration for a small Canary island in 2030. Energy Conversion and Management, 2018, 165, 363-372.	4.4	51
575	District heating in cities as a part of low-carbon energy system. Energy, 2018, 152, 627-639.	4.5	69
576	Validation of dynamic building energy simulation tools based on a real test-box with thermally activated building systems (TABS). Energy and Buildings, 2018, 168, 42-55.	3.1	48
577	Renewable heating strategies and their consequences for storage and grid infrastructures comparing a smart grid to a smart energy systems approach. Energy, 2018, 151, 94-102.	4.5	148
578	Local smart energy systems and cross-system integration. Energy, 2018, 151, 812-825.	4.5	65
579	Technology-free microgrid modeling with application to demand side management. Applied Energy, 2018, 219, 165-178.	5.1	16
580	Policy incentives for flexible district heating in the Baltic countries. Utilities Policy, 2018, 51, 61-72.	2.1	28
581	Multi-dimensional simulation of underground subway spaces coupled with geoenergy systems. Journal of Building Performance Simulation, 2018, 11, 517-537.	1.0	9
582	The improved screening curve method regarding existing units. European Journal of Operational Research, 2018, 264, 310-326.	3.5	8
583	Optimal design of multi-energy systems with seasonal storage. Applied Energy, 2018, 219, 408-424.	5.1	357
584	Development of load models and operation simulator for a building complex with mixtures of multi-type engines and renewable devices. Energy and Buildings, 2018, 158, 831-847.	3.1	7
585	Transformation of India's transport sector under global warming of 2°C and 1.5°C scenario. Journal of Cleaner Production, 2018, 172, 417-427.	4.6	60

#	Article	IF	CITATIONS
586	Modeling, planning, application and management of energy systems for isolated areas: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 460-470.	8.2	105
587	Security-Constrained Design of Isolated Multi-Energy Microgrids. IEEE Transactions on Power Systems, 2018, 33, 2452-2462.	4.6	80
588	A review at the role of storage in energy systems with a focus on Power to Gas and long-term storage. Renewable and Sustainable Energy Reviews, 2018, 81, 1049-1086.	8.2	447
589	Optimal Sizing of Renewable Sources and Energy Storage in Low-Carbon Microgrid Nodes. Electrical Engineering, 2018, 100, 1661-1674.	1.2	17
590	Beyond sensitivity analysis: A methodology to handle fuel and electricity prices when designing energy scenarios. Energy Research and Social Science, 2018, 39, 108-116.	3.0	32
591	Integration of electric vehicles and management in the internet of energy. Renewable and Sustainable Energy Reviews, 2018, 82, 4179-4203.	8.2	132
592	Enhancing operation of decentralized energy systems by a regional economic optimization model DISTRICT. Energy Systems, 2018, 9, 669-707.	1.8	11
593	Decarbonising the Finnish Transport Sector by 2050—Electricity or Biofuels?. Green Energy and Technology, 2018, , 3-22.	0.4	0
594	Flow tracing as a tool set for the analysis of networked large-scale renewable electricity systems. International Journal of Electrical Power and Energy Systems, 2018, 96, 390-397.	3.3	22
595	Optimal design and analysis of grid-connected photovoltaic under different tracking systems using HOMER. Energy Conversion and Management, 2018, 155, 42-57.	4.4	161
596	Control techniques and the modeling of electrical power flow across transmission networks. Renewable and Sustainable Energy Reviews, 2018, 82, 3452-3467.	8.2	16
597	Modeling and optimization for hydraulic performance design in multi-source district heating with fluctuating renewables. Energy Conversion and Management, 2018, 156, 113-129.	4.4	56
598	Simulation Tools to Build Urban-Scale Energy Models: A Review. Energies, 2018, 11, 3269.	1.6	71
599	Study on Energy Demand and CO 2 Emission Peak of China's Highway Transport Based on LEAP Model. , 2018, , .		0
600	Analyzing of a Photovoltaic/Wind/Biogas/Pumped-Hydro Off-Grid Hybrid System for Rural Electrification in Sub-Saharan Africa—Case study of Djoundé in Northern Cameroon. Energies, 2018, 11, 2644.	1.6	86
601	Design Support Tool for Multi-DER Residential Microgrids. , 2018, , .		5
602	Energy systems modeling: Trends in research publication. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e333.	1.9	11
603	A software for residential Multi-DER microgrids design. , 2018, , .		0

#	Article	IF	CITATIONS
604	City Scale Demand Side Management in Three Different-Sized District Heating Systems. Energies, 2018, 11, 3370.	1.6	23
605	Economic Evaluation of Renewable Energy Systems for the Optimal Planning and Design in Korea – A Case Study. Journal of Sustainable Development of Energy, Water and Environment Systems, 2018, 6, 725-741.	0.9	15
606	Offshore Wind Farms to Support Existing Power Plants Case Study: Deir Ammar Power Plant, Tripoli, Lebanon. , 2018, , .		1
607	Performance Study on a 20 kW Roof Mount Residential Photovoltaic System. , 2018, , .		1
608	Assessment of Power System Low-carbon Transition Pathways Based on China's Energy Revolution Strategy. Energy Procedia, 2018, 152, 1039-1044.	1.8	10
609	Techno-economic and environmental analysis of hybrid energy systems for a university in Australia. Australian Journal of Electrical and Electronics Engineering, 2018, 15, 168-174.	0.7	3
610	Dynamics of long-term electricity demand profile: Insights from the analysis of Swiss energy systems. Energy Strategy Reviews, 2018, 22, 410-425.	3.3	7
611	The Potential of Solar Air Heating in the Turkish Industrial Sector. Periodica Polytechnica, Mechanical Engineering, 2018, 63, 57-66.	0.8	2
612	Grid-based multi-energy systems—modelling, assessment, open source modelling frameworks and challenges. Energy, Sustainability and Society, 2018, 8, .	1.7	38
613	Optimisation of an Energy System in Finland Using NSGA-II Evolutionary Algorithm. , 2018, , .		1
614	Preliminary Performance Tests and Simulation of a V-Shape Roof Guide Vane Mounted on an Eco-Roof System. Energies, 2018, 11, 2846.	1.6	5
615	Modeling and Simulation of Energy Systems: A Review. Processes, 2018, 6, 238.	1.3	99
616	Fusion Study of Geography and Environmental Engineering. , 2018, , .		0
617	Power-to-gas for injection into the gas grid: What can we learn from real-life projects, economic assessments and systems modelling?. Renewable and Sustainable Energy Reviews, 2018, 98, 302-316.	8.2	164
618	A comprehensive review on expansion planning: Models and tools for energy policy analysis. Renewable and Sustainable Energy Reviews, 2018, 98, 346-360.	8.2	108
619	A methodology for bottom-up modelling of energy transitions in the industry sector: The FORECAST model. Energy Strategy Reviews, 2018, 22, 237-254.	3.3	62
620	Technical and economic assessment of RES penetration by modelling China's existing energy system. Energy, 2018, 165, 900-910.	4.5	28
621	Exploring policy options to spur the expansion of ethanol production and consumption in Brazil: An agent-based modeling approach. Energy Policy, 2018, 123, 619-641.	4.2	20

#	Article	IF	CITATIONS
622	Decentralised Energy Systems in Africa: Coordination and Integration of Off-Grid and Grid Power Systems—Review of Planning Tools to Identify Renewable Energy Deployment Options for Rural Electrification in Africa. Current Sustainable/Renewable Energy Reports, 2018, 5, 214-223.	1.2	19
623	Decentralized Microgrid Energy Management System with Market-Based Energy Trade System. , 2018, , .		3
624	Power-to-gas based subsurface energy storage: A review. Renewable and Sustainable Energy Reviews, 2018, 97, 478-496.	8.2	53
625	District energy systems: Modelling paradigms and general-purpose tools. Energy, 2018, 164, 1326-1340.	4.5	44
626	Review of planning methodologies used for determination of optimal generation capacity mix: the cases of high shares of PV and wind. IET Renewable Power Generation, 2018, 12, 1222-1233.	1.7	25
627	Utilising demand response in the future Finnish energy system with increased shares of baseload nuclear power and variable renewable energy. Energy, 2018, 164, 204-217.	4.5	25
628	Modeling the long-term impact of demand response in energy planning: The Portuguese electric system case study. Energy, 2018, 165, 456-468.	4.5	49
629	A New Web-Based Cross-Energy Optimization and Simulation Environment. , 2018, , .		0
630	The Impacts of High V2G Participation in a 100% Renewable Ã…land Energy System. Energies, 2018, 11, 2206.	1.6	70
631	Review on performance aspects of nearly zero-energy districts. Sustainable Cities and Society, 2018, 43, 406-420.	5.1	80
632	METIS – An energy modelling tool to support transparent policy making. Energy Strategy Reviews, 2018, 22, 127-135.	3.3	12
633	Morphological analysis of energy scenarios. International Journal of Energy Sector Management, 2018, 12, 525-546.	1.2	11
634	Are conventional energy megaprojects competitive? Suboptimal decisions related to cost overruns in Brazil. Energy Policy, 2018, 122, 689-700.	4.2	17
635	Conceptual model of the industry sector in an energy system model: A case study for Denmark. Journal of Cleaner Production, 2018, 203, 427-443.	4.6	27
636	A review of durability test protocols of the proton exchange membrane fuel cells for vehicle. Applied Energy, 2018, 224, 289-299.	5.1	138
637	Metaheuristic methods applied to the pumps and turbines configuration design of water pumped storage systems. Journal of Energy Storage, 2018, 18, 196-205.	3.9	9
638	Synergies of Electric Urban Transport Systems and Distributed Energy Resources in Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2445-2453.	4.7	38
639	A smart energy system approach vs a non-integrated renewable energy system approach to designing a future energy system in Zagreb. Energy, 2018, 155, 824-837.	4.5	58

#	Article	IF	CITATIONS
640	A Review of Predictive Software for the Design of Community Microgrids. Journal of Engineering (United States), 2018, 2018, 1-13.	0.5	11
641	A Review of Modeling Approaches and Tools for the Off-design Simulation of Organic Rankine Cycle. Journal of Thermal Science, 2018, 27, 305-320.	0.9	33
642	The optimal structure planning and energy management strategies of smart multi energy systems. Energy, 2018, 160, 122-141.	4.5	198
643	Techno-economic evaluation for hybrid renewable energy system: Application and merits. Energy, 2018, 159, 385-409.	4.5	114
644	Conducting PEDOT Nanoparticles: Controlling Colloidal Stability and Electrical Properties. Journal of Physical Chemistry C, 2018, 122, 19197-19203.	1.5	17
645	Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: The Italian case study. Energy, 2018, 160, 33-43.	4.5	23
646	Phase Change Materials for Building Applications: A Thorough Review and New Perspectives. Buildings, 2018, 8, 63.	1.4	45
647	A review of the role of distributed generation (DG) in future electricity systems. Energy, 2018, 163, 822-836.	4.5	162
648	A design and analysis tool for utility scale power systems incorporating large scale wind, solar photovoltaics and energy storage. Journal of Energy Storage, 2018, 19, 103-112.	3.9	14
649	Positive interactions between electric vehicles and renewable energy sources in CO2-reduced energy scenarios: The Italian case. Energy, 2018, 161, 172-182.	4.5	68
650	Multi-Criteria Analysis of Electricity Generation Scenarios for Sustainable Energy Planning in Pakistan. Energies, 2018, 11, 757.	1.6	49
651	Simulation based evaluation of large scale waste heat utilization in urban district heating networks: Optimized integration and operation of a seasonal storage. Energy, 2018, 159, 1161-1174.	4.5	40
652	Multiyear Load Growth Based Techno-Financial Evaluation of a Microgrid for an Academic Institution. IEEE Access, 2018, 6, 37533-37555.	2.6	30
653	Aiming towards pollution free future by high penetration of renewable energy sources in electricity generation expansion planning. Futures, 2018, 104, 25-36.	1.4	40
654	Incorporating Power Transmission Bottlenecks into Aggregated Energy System Models. Sustainability, 2018, 10, 1916.	1.6	16
655	Implications of short-term renewable energy resource intermittency in long-term power system planning. Energy Strategy Reviews, 2018, 22, 1-15.	3.3	48
656	The Open Energy Modelling Framework (oemof) - A new approach to facilitate open science in energy system modelling. Energy Strategy Reviews, 2018, 22, 16-25.	3.3	147
657	Adaptive power consumption improves the reliability of solar-powered devices for internet of things. Applied Energy, 2018, 224, 322-329.	5.1	28

#	Article	IF	Citations
658	A qualitative evaluation approach for energy system modelling frameworks. Energy, Sustainability and Society, 2018, 8, .	1.7	30
659	STREAM–an energy scenario modelling tool. Energy Strategy Reviews, 2018, 21, 62-70.	3.3	14
660	Modeling and simulation supporting the application of fuel cell & hydrogen technologies. Journal of Computational Science, 2018, 27, 10-20.	1.5	6
661	Economic feasibility of booster heat pumps in heat pump-based district heating systems. Energy, 2018, 155, 921-929.	4.5	61
662	Smart renewable energy penetration strategies on islands: The case of Gran Canaria. Energy, 2018, 162, 421-443.	4.5	87
663	A review of current challenges and trends in energy systems modeling. Renewable and Sustainable Energy Reviews, 2018, 96, 156-166.	8.2	181
664	Applications of hybrid models in chemical, petroleum, and energy systems: A systematic review. Applied Energy, 2018, 228, 2539-2566.	5.1	238
665	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.	8.2	465
666	A review on the utilization of hybrid renewable energy. Renewable and Sustainable Energy Reviews, 2018, 91, 1121-1147.	8.2	273
668	Comprehensive representation of models for energy system analyses: Insights from the Energy Modelling Platform for Europe (EMP-E) 2017. Energy Strategy Reviews, 2018, 21, 82-87.	3.3	35
669	Sizing methods and optimization techniques for PV-wind based hybrid renewable energy system: A review. Renewable and Sustainable Energy Reviews, 2018, 93, 652-673.	8.2	256
670	5.6 Energy Management Softwares and Tools. , 2018, , 202-257.		1
671	Solar–wind hybrid renewable energy system: current status of research on configurations, control, and sizing methodologies. , 2018, , 219-248.		15
672	Methodology for Analysing Electrical Scenarios as a Means of Sustainable Development in Emerging Countries. , 2018, , 105-117.		0
673	5.7 Energy Quality Management. , 2018, , 258-314.		9
674	Trade-offs between economic and environmental performance of an autonomous hybrid energy system using micro hydro. Applied Energy, 2018, 226, 891-904.	5.1	29
675	Multiyear calibration of simulations of energy systems. Energy, 2018, 157, 932-939.	4.5	2
676	Reviewing the Nicaraguan transition to a renewable energy system: Why is "business-as-usual―no longer an option?. Energy Policy, 2018, 120, 580-592.	4.2	13

#	Article	IF	CITATIONS
677	Lessons for regional energy modelling: enhancing demand-side transport and residential policies in Madrid. Regional Studies, 2019, 53, 826-837.	2.5	3
678	CFD prediction of dust pollution and impact on an isolated ground-mounted solar photovoltaic system. Renewable Energy, 2019, 131, 829-840.	4.3	57
679	Improvements in the representation of behavior in integrated energy and transport models. International Journal of Sustainable Transportation, 2019, 13, 294-313.	2.1	33
680	Building integration of solar thermal systems-example of a refurbishment of a church rectory. Renewable Energy, 2019, 137, 67-81.	4.3	9
681	Comparison of dynamic simulations and the ISO 52016 standard for the assessment of building energy performance. Applied Energy, 2019, 254, 113553.	5.1	40
682	Prospects, obstacles and solutions of biomass power industry in China. Journal of Cleaner Production, 2019, 237, 117783.	4.6	50
683	Numerical investigation of installation and environmental parameters on soiling of roof-mounted solar photovoltaic array. Cogent Engineering, 2019, 6, .	1.1	11
684	Representation of Balancing Options for Variable Renewables in Long-Term Energy System Models: An Application to OSeMOSYS. Energies, 2019, 12, 2366.	1.6	15
685	Computational model of simultaneous wave and sea current loads on tidal turbines. Ocean Engineering, 2019, 184, 323-331.	1.9	2
686	Quantitative Analysis Methods Used in Modeling Power Systems and Climate Change for Saudi Arabia. Understanding Complex Systems, 2019, , 293-306.	0.3	0
687	A multi-sectoral approach to modelling community energy demand of the built environment. Energy Policy, 2019, 132, 865-875.	4.2	19
688	Large scale integration of renewable energy sources (RES) in the future Colombian energy system. Energy, 2019, 186, 115805.	4.5	58
689	Optimal Scheduling of Distributed Energy Resources in Residential Building under the Demand Response Commitment Contract. Energies, 2019, 12, 2810.	1.6	7
690	Exploring Low-Carbon Futures: A Web Service Approach to Linking Diverse Climate-Energy-Economy Models. Energies, 2019, 12, 2880.	1.6	9
691	From Carbon Calculators to Energy System Analysis in Cities. Energies, 2019, 12, 2307.	1.6	20
692	Review of indicators for comparing environmental effects across energy sources. Environmental Research Letters, 2019, 14, 103002.	2.2	8
693	Comparison of spatially and temporally resolved energy system models with a focus on Germany's future power supply. Applied Energy, 2019, 255, 113889.	5.1	27
694	European projects on district energy-renovations and Italian best practices. E3S Web of Conferences, 2019, 111, 03004.	0.2	0

#	Article	IF	CITATIONS
695	Survey and analysis of the quantitative methods used in electricity research on GCC countries: 1983–2018. Heliyon, 2019, 5, e02634.	1.4	7
696	Techno-econo-environmental optimal operation of grid-wind-solar electricity generation with hydrogen storage system for domestic scale, case study in Chad. International Journal of Hydrogen Energy, 2019, 44, 28613-28628.	3.8	65
697	EnergyScope TD: A novel open-source model for regional energy systems. Applied Energy, 2019, 255, 113729.	5.1	59
698	Site-specific tailoring of an optimal design of renewable energy system for remote water supply station in Silchar, India. Sustainable Energy Technologies and Assessments, 2019, 36, 100558.	1.7	12
699	Evaluation of the photovoltaic potential in built environment using spatial data captured by unmanned aerial vehicles. Energy Science and Engineering, 2019, 7, 2011-2025.	1.9	7
700	The value of flexible load in power systems with high renewable energy penetration. Energy, 2019, 188, 115960.	4.5	48
701	Optimal-Mix-Model Structure as an Alternative Methodological Structure for the Nigerian Energy Calculator 2050 (NECAL2050). Journal of Resources Energy and Development, 2019, 16, 19-33.	0.2	0
702	Long-term energy system planning considering short-term operational constraints. Energy Strategy Reviews, 2019, 26, 100383.	3.3	37
703	Pre-feasibility techno-economic comparison of rural electrification options: exploitation of PV and wind. , 2019, , .		0
704	Modelling and Evaluation of Multi-Vector Energy Networks in Smart Cities. , 2019, , .		3
705	Techno-economic assessment of a hybrid solar-wind-battery system with genetic algorithm. Energy Procedia, 2019, 158, 6384-6392.	1.8	45
706	Comparison of environmental assessment methodology in hybrid energy system simulation software. Procedia CIRP, 2019, 80, 221-227.	1.0	19
707	Problems of Design of the Generalized Power Module for Control Systems of Solar Installations. Procedia Computer Science, 2019, 150, 223-229.	1.2	0
708	The Energy Mosaic Austria—A Nationwide Energy and Greenhouse Gas Inventory on Municipal Level as Action Field of Integrated Spatial and Energy Planning. Energies, 2019, 12, 3065.	1.6	8
709	Role of immersive visualization tools in renewable energy system development. Renewable and Sustainable Energy Reviews, 2019, 115, 109363.	8.2	10
710	Soft-linking of a behavioral model for transport with energy system cost optimization applied to hydrogen in EU. Renewable and Sustainable Energy Reviews, 2019, 115, 109349.	8.2	26
711	Integration Capability Evaluation of Wind and Photovoltaic Generation in Power Systems Based on Temporal and Spatial Correlations. Energies, 2019, 12, 171.	1.6	5
712	Scenarios for sustainable energy in Scotland. Wind Energy, 2019, 22, 666-684.	1.9	18

#	Article	IF	CITATIONS
713	An overview of energy planning in Iran and transition pathways towards sustainable electricity supply sector. Renewable and Sustainable Energy Reviews, 2019, 112, 58-74.	8.2	95
714	Techno-economic potential evaluation of small-scale grid-connected renewable power systems in China. Energy Conversion and Management, 2019, 196, 430-442.	4.4	33
715	Optimal Decision Guidance for the Electricity Supply Chain Integration With Renewable Energy: Aligning Smart Cities Research With Sustainable Development Goals. IEEE Access, 2019, 7, 74996-75006.	2.6	30
716	Research Insights and Knowledge Headways for Developing Remote, Off-Grid Microgrids in Developing Countries. Energies, 2019, 12, 2008.	1.6	24
717	Why fully liberalised electricity markets will fail to meet deep decarbonisation targets even with strong carbon pricing. Energy Policy, 2019, 131, 99-110.	4.2	32
718	Perpetuating energy poverty: Assessing roadmaps for universal energy access in unmet African electricity markets. Energy Research and Social Science, 2019, 55, 1-13.	3.0	31
719	Modeling framework for planning and operation of multi-modal energy systems in the case of Germany. Applied Energy, 2019, 250, 1132-1146.	5.1	42
720	Balancing Europe: Can district heating affect the flexibility potential of Norwegian hydropower resources?. Renewable Energy, 2019, 141, 646-656.	4.3	36
721	Assessment of Decentralized Electricity Production from Hybrid Renewable Energy Sources for Sustainable Energy Development in Nigeria. Open Engineering, 2019, 9, 72-89.	0.7	17
722	Long-term electricity load forecasting: Current and future trends. Utilities Policy, 2019, 58, 102-119.	2.1	83
723	Socio-economic and Environmental Implications of Renewable Energy Integrity in Oman: Scenario Modelling Using System Dynamics Approach. Understanding Complex Systems, 2019, , 17-46.	0.3	5
724	Assessment of tools for urban energy planning. Energy, 2019, 176, 544-551.	4.5	70
725	Estimating the Impacts of Financing Support Policies Towards Photovoltaic Market in Indonesia: A Social-Energy-Economy-Environment (SE3) Model Simulation. SSRN Electronic Journal, 2019, , .	0.4	0
726	Decision analysis to support the choice of a future power generation pathway for Sri Lanka. Applied Energy, 2019, 240, 680-697.	5.1	17
727	Optimal Sizing and Analysis of a Small Hybrid Power System for Umuokpo Amumara in Eastern Nigeria. International Journal of Photoenergy, 2019, 2019, 1-8.	1.4	1
728	Optimal sizing of hybrid renewable energy system via artificial immune system under frequency stability constraints. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	15
730	Intelligent power supply management of an autonomous hybrid energy generator. International Journal of Sustainable Engineering, 2019, 12, 312-332.	1.9	9
731	Eco-Sim: A Parametric Tool to Evaluate the Environmental and Economic Feasibility of Decentralized Energy Systems. Energies, 2019, 12, 776.	1.6	18

#	Article	IF	CITATIONS
732	HyFlow—A Hybrid Load Flow-Modelling Framework to Evaluate the Effects of Energy Storage and Sector Coupling on the Electrical Load Flows. Energies, 2019, 12, 956.	1.6	19
733	Quantifying the cost of leaving the Paris Agreement via the integration of life cycle assessment, energy systems modeling and monetization. Applied Energy, 2019, 242, 588-601.	5.1	26
734	Coal phase out, energy efficiency, and electricity imports: Key elements to realize the energy transformation. Applied Physics Reviews, 2019, 6, .	5.5	8
735	Evaluation of electricity storage versus thermal storage as part of two different energy planning approaches for the islands SamsÃ, and Orkney. Energy, 2019, 175, 505-514.	4.5	52
736	District Cooling Versus Individual Cooling in Urban Energy Systems: The Impact of District Energy Share in Cities on the Optimal Storage Sizing. Energies, 2019, 12, 407.	1.6	17
737	Climate Change and Energy Dynamics in the Middle East. Understanding Complex Systems, 2019, , .	0.3	3
738	Energy system optimization at the municipal level: An analysis of modeling approaches and challenges. Renewable and Sustainable Energy Reviews, 2019, 105, 444-461.	8.2	39
739	Optimising energy flows and synergies between energy networks. Energy, 2019, 173, 400-412.	4.5	28
740	Optimising the regional mix of intermittent and flexible energy technologies. Journal of Cleaner Production, 2019, 219, 508-517.	4.6	7
741	Decision-making based on energy costs: Comparing levelized cost of energy and energy system costs. Energy Strategy Reviews, 2019, 24, 68-82.	3.3	106
742	The integration of exergy criterion in energy planning analysis for 100% renewable system. Energy, 2019, 174, 749-767.	4.5	26
743	Internalization of Externalities of Utility Scale Solar Energy Using the Ecos Model. , 2019, , .		0
744	Energy Efficiency Community Plan from System Arrangement of Renewable Energy Resources and Load Management. , 2019, , .		2
745	Achieving a Flexible and Sustainable Energy System: The Case of Kosovo. Energies, 2019, 12, 4753.	1.6	6
746	Cost Uncertainties in Energy System Optimization Models: A Quadratic Programming Approach for Avoiding Penny Switching Effects. Energies, 2019, 12, 4006.	1.6	14
747	Methodology for Constructing the Integrated Energy System Simulation Platform Based on Individual-based Model. , 2019, , .		1
748	Archetypes of Country Energy Systems. , 2019, , .		0
749	Sector Coupling in the North Sea Region—A Review on the Energy System Modelling Perspective. Energies, 2019, 12, 4298.	1.6	19

#	Article	IF	Citations
750	Electric Vehicles and Storage Systems Integrated within a Sustainable Urban District Fed by Solar Energy. Journal of Advanced Transportation, 2019, 2019, 1-19.	0.9	10
751	Building Energy Performance Analysis: An Experimental Validation of an In-House Dynamic Simulation Tool through a Real Test Room. Energies, 2019, 12, 4107.	1.6	26
752	Methodology for the Selection and Sizing of an Isolated MicroGrid Based on Economic Criteria. IEEE Latin America Transactions, 2019, 17, 1761-1770.	1.2	4
753	Wind and Solar energy optimal integration. , 2019, , .		2
754	Performance analysis of a Solar Photovoltaic Power Plant. , 2019, , .		5
755	Application of different modeling approaches to a district heating network. AIP Conference Proceedings, 2019, , .	0.3	10
756	Reducing energy time series for energy system models via self-organizing maps. IT - Information Technology, 2019, 61, 125-133.	0.6	3
757	Hydrogen Energy Storage. , 0, , .		2
758	ICT gateway to simulation environment for electrical fault injection and recovery. , 2019, , .		0
759	Reflecting trends in the academic landscape of sustainable energy using probabilistic topic modeling. Energy, Sustainability and Society, 2019, 9, .	1.7	17
760	How modelers construct energy costs: Discursive elements in Energy System and Integrated Assessment Models. Energy Research and Social Science, 2019, 47, 69-77.	3.0	57
761	Bridging the gap using energy services: Demonstrating a novel framework for soft linking top-down and bottom-up models. Energy, 2019, 169, 277-293.	4.5	35
762	Comparison of various approaches to design windâ€₽V rural electrification projects in remote areas of developing countries. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e332.	1.9	7
763	Excess electricity and power-to-gas storage potential in the future renewable-based power generation sector in the United Arab Emirates. Energy, 2019, 166, 426-450.	4.5	30
764	Parametric optimization of long-term multi-area heat and power production with power storage. Applied Energy, 2019, 235, 802-812.	5.1	9
765	Integrated assessment of a sustainable microgrid for a remote village in hilly region. Energy Conversion and Management, 2019, 180, 442-472.	4.4	99
766	Evaluation of design objectives in district heating system design. Energy, 2019, 167, 369-378.	4.5	9
767	Overall energy assessment of semi-transparent photovoltaic insulated glass units for building integration under different climate conditions. Renewable Energy, 2019, 134, 818-827.	4.3	24

#	Article	IF	CITATIONS
768	Economic Performance of Using Batteries in European Residential Microgrids under the Net-Metering Scheme. Energies, 2019, 12, 165.	1.6	15
769	Multi-criteria decision support system of the photovoltaic and solar thermal energy systems using the multi-objective optimization algorithm. Science of the Total Environment, 2019, 659, 1100-1114.	3.9	18
770	Assessment of long-term energy efficiency improvement and greenhouse gas emissions mitigation options for the cement industry. Energy, 2019, 170, 1051-1066.	4.5	77
771	Modeling formulation and validation for accelerated simulation and flexibility assessment on large scale power systems under higher renewable penetrations. Applied Energy, 2019, 237, 145-154.	5.1	28
772	Developing a scenario calculator for smart energy communities in Norway: Identifying gaps between vision and practice. Sustainable Cities and Society, 2019, 46, 101418.	5.1	17
773	Techno-economic analysis of a trigeneration system based on biomass gasification. Renewable and Sustainable Energy Reviews, 2019, 103, 501-514.	8.2	77
774	Techno-economic analysis of a stand-alone microgrid for a commercial building in eight different climate zones. Energy Conversion and Management, 2019, 179, 58-71.	4.4	58
775	Long-term optimization of Egypt's power sector: Policy implications. Energy, 2019, 166, 1063-1073.	4.5	41
776	The gap between energy policy challenges and model capabilities. Energy Policy, 2019, 125, 503-520.	4.2	76
777	Open Power System Data – Frictionless data for electricity system modelling. Applied Energy, 2019, 236, 401-409.	5.1	69
778	A comparative study of two simulation tools for the technical feasibility in terms of modeling district heating systems: An optimization case study. Simulation Modelling Practice and Theory, 2019, 91, 48-68.	2.2	23
779	Energy management and optimal storage sizing for a shared community: A multi-stage stochastic programming approach. Applied Energy, 2019, 236, 42-54.	5.1	77
780	Influences of dust deposition on ground-mounted solar photovoltaic arrays: A CFD simulation study. Renewable Energy, 2019, 135, 21-31.	4.3	34
781	Renewable energy source integration into power networks, research trends and policy implications: A bibliometric and research actors survey analysis. Energy Policy, 2019, 124, 23-35.	4.2	88
782	A Sequential Linear Programming algorithm for economic optimization of Hybrid Renewable Energy Systems. Journal of Process Control, 2019, 74, 189-201.	1.7	32
783	Transitioning to a 100% renewable energy system in Denmark by 2050: assessing the impact from expanding the building stock at the same time. Energy Efficiency, 2019, 12, 37-55.	1.3	23
784	Peak CO2 emission in the region dominated by coal use and heavy chemical industries: A case study of Dezhou city in China. Frontiers in Energy, 2020, 14, 740-758.	1.2	4
785	Rural electrification in Kenya: a useful case for remote areas in sub-Saharan Africa. Energy Efficiency, 2020, 13, 257-272.	1.3	15

#	Article	IF	CITATIONS
786	Decision support for strategic energy planning: A robust optimization framework. European Journal of Operational Research, 2020, 280, 539-554.	3.5	57
787	Modelling and simulation tool for off-grid PV-hydrogen energy system. International Journal of Sustainable Energy, 2020, 39, 1-20.	1.3	13
788	Techno-economic feasibility of trigeneration systems with Thermal storage: The impact of the load size and spark spread rates. Sustainable Cities and Society, 2020, 52, 101745.	5.1	4
789	Computational Methods for Optimal Planning of Hybrid Renewable Microgrids: A Comprehensive Review and Challenges. Archives of Computational Methods in Engineering, 2020, 27, 1297-1319.	6.0	45
790	The curious case of the conflicting roles of hydrogen in global energy scenarios. Sustainable Energy and Fuels, 2020, 4, 80-95.	2.5	77
791	Potential role of renewable gas in the transition of electricity and district heating systems. Energy Strategy Reviews, 2020, 27, 100446.	3.3	29
792	Assessment of mitigation measures contribution to CO2 reduction in sustainable energy action plan. Clean Technologies and Environmental Policy, 2020, 22, 2039-2052.	2.1	11
793	A novel approach to district heating and cooling network design based on life cycle cost optimization. Energy, 2020, 194, 116837.	4.5	29
794	Sectoral peak CO2 emission measurements and a long-term alternative CO2 mitigation roadmap: A case study of Yunnan, China. Journal of Cleaner Production, 2020, 247, 119171.	4.6	32
795	Potentials and financial viability of solar photovoltaic power generation in Nigeria for greenhouse gas emissions mitigation. Clean Technologies and Environmental Policy, 2020, 22, 481-492.	2.1	19
796	Renewable and sustainable energy production in Saudi Arabia according to Saudi Vision 2030; Current status and future prospects. Journal of Cleaner Production, 2020, 247, 119602.	4.6	119
797	Hybrid photovoltaic and wind mini-grids in Kenya: Techno-economic assessment and barriers to diffusion. Energy for Sustainable Development, 2020, 54, 111-126.	2.0	55
798	Transitioning remote Arctic settlements to renewable energy systems – A modelling study of Longyearbyen, Svalbard. Applied Energy, 2020, 258, 114079.	5.1	20
799	Assessment of the impacts of process-level energy efficiency improvement on greenhouse gas mitigation potential in the petroleum refining sector. Energy, 2020, 191, 116243.	4.5	22
800	A survey of modelling and smart management tools for power grids with prolific distributed generation. Sustainable Energy, Grids and Networks, 2020, 21, 100284.	2.3	55
801	Impact of emerging technologies on the electricity load profile of residential areas. Energy and Buildings, 2020, 208, 109614.	3.1	26
802	Sustainability assessment of the water-energy-food nexus in Jiangsu Province, China. Habitat International, 2020, 95, 102094.	2.3	30
803	Life cycle assessment integration into energy system models: An application for Power-to-Methane in the EU. Applied Energy, 2020, 259, 114160.	5.1	50

#	Article	IF	CITATIONS
804	An improved treatment of operating reserves in generation expansion planning models. , 2020, , .		0
805	Assessing the security of electricity supply through multi-scale modeling: The TIMES-ANTARES linking approach. Applied Energy, 2020, 279, 115717.	5.1	23
806	Optimization and techno-economic analysis of photovoltaic-wind-battery based hybrid system. Journal of Energy Storage, 2020, 32, 101878.	3.9	40
807	Energy supply transformation pathways in Iran to reduce GHG emissions in line with the Paris Agreement. Energy Strategy Reviews, 2020, 32, 100541.	3.3	25
808	A systemic approach to analyze integrated energy system modeling tools: A review of national models. Renewable and Sustainable Energy Reviews, 2020, 133, 110195.	8.2	90
809	Modeling and planning of the electricity energy system with a high share of renewable supply for Portugal. Energy, 2020, 211, 118713.	4.5	22
810	Integration of life cycle assessment with energy simulation software for polymer exchange membrane (PEM) electrolysis. Procedia CIRP, 2020, 90, 176-181.	1.0	1
811	13.8 kV Operation of a Peak-Shaving Energy Storage Equipment With Voltage Harmonics Compensation Feature. IEEE Access, 2020, 8, 182117-182132.	2.6	9
812	Design of tariff schemes as demand response mechanisms for stand-alone microgrids planning. Energy, 2020, 211, 119028.	4.5	8
813	MOIRAE – bottom-up MOdel to compute the energy consumption of the Italian REsidential sector: Model design, validation and evaluation of electrification pathways. Energy, 2020, 211, 118674.	4.5	16
814	Heat Roadmap Chile: A national district heating plan for air pollution decontamination and decarbonisation. Journal of Cleaner Production, 2020, 272, 122744.	4.6	14
815	Forecasting and assessment of the 2030 australian electricity mix paths towards energy transition. Energy, 2020, 205, 118020.	4.5	24
816	Sensitivity analysis to reduce duplicated features in ANN training for district heat demand prediction. Energy and Al, 2020, 2, 100028.	5.8	42
817	Is the coherence of coal phase-out and electrolytic hydrogen production the golden path to effective decarbonisation?. Applied Energy, 2020, 279, 115779.	5.1	13
818	Effects of Deep Reductions in Energy Storage Costs on Highly Reliable Wind and Solar Electricity Systems. IScience, 2020, 23, 101484.	1.9	36
819	Complexity profiles: A large-scale review of energy system models in terms of complexity. Energy Strategy Reviews, 2020, 30, 100515.	3.3	36
820	A 'feasibility space' as a goal to be achieved in the development of new technologies for converting renewable energies. MethodsX, 2020, 7, 100960.	0.7	2
821	Sustainable energy system analysis modeling environment: Analyzing life cycle emissions of the energy transition. Applied Energy, 2020, 277, 115550.	5.1	37

#	Article	IF	CITATIONS
822	Integrated and dynamic energy modelling of a regional system: A cost-optimized approach in the deep decarbonisation of the Province of Trento (Italy). Energy, 2020, 209, 118378.	4.5	18
823	Linking Dynamic Building Simulation with Long-Term Energy System Planning to Improve Buildings Urban Energy Planning Strategies. Smart Cities, 2020, 3, 1242-1265.	5.5	5
824	Optimal operation modeling and synergetic dispatch of source-load-storage for high renewable energy penetration. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	1.2	0
825	Comparative analysis of different hybrid energy system for sustainable power supply: A case study. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012045.	0.2	0
826	Integrating Methods and Empirical Findings from Social and Behavioural Sciences into Energy System Models—Motivation and Possible Approaches. Energies, 2020, 13, 4951.	1.6	9
827	Unconventional Excess Heat Sources for District Heating in a National Energy System Context. Energies, 2020, 13, 5068.	1.6	24
828	Computational Tools used in Hybrid Renewable Energy Systems Optimization-An overview. Computer Aided Chemical Engineering, 2020, 48, 1477-1482.	0.3	7
829	Sustainable Energy Solutions for Remote Areas in the Tropics. Green Energy and Technology, 2020, , .	0.4	5
830	Designing Hydro Supply Chains for Energy, Food, and Flood. Manufacturing and Service Operations Management, 0, , .	2.3	0
831	Research the effect of crosslinking degree on the overall performance of novel proton exchange membranes. Solid State Ionics, 2020, 351, 115325.	1.3	7
832	Analysis of smart energy system approach in local alpine regions - A case study in Northern Italy. Energy, 2020, 202, 117748.	4.5	19
833	Classification and challenges of bottom-up energy system models - A review. Renewable and Sustainable Energy Reviews, 2020, 129, 109917.	8.2	167
834	Cost-optimal evaluation of centralized and distributed microgrid topologies considering voltage constraints. Energy for Sustainable Development, 2020, 56, 88-97.	2.0	11
835	Energy–Economy Coupled Simulation Approach and Simulator Based on Invididual-Based Model. Energies, 2020, 13, 2771.	1.6	2
836	On the road to 100% renewable energy systems in isolated islands. Energy, 2020, 198, 117321.	4.5	62
837	A Decision Support System Tool to Manage the Flexibility in Renewable Energy-Based Power Systems. Energies, 2020, 13, 153.	1.6	17
838	Development of a Decision-Making Framework for Distributed Energy Systems in a German District. Energies, 2020, 13, 552.	1.6	18
839	Influence of climate change externalities on the sustainability-oriented prioritisation of prospective energy scenarios. Energy, 2020, 196, 117179.	4.5	15

ARTICLE IF CITATIONS Hybrid Wind and Solar Systems Optimization., 0,,. 1 840 A screening method to quantify the economic viability of off-grid in-stream tidal energy deployment. 841 4.3 Renewable Energy, 2020, 159, 610-622. Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of 842 2.9 15 the Smart Grid. IEEE Systems Journal, 2020, 14, 3641-3652. Techno-economic benefits of grid-scale energy storage in future energy systems. Energy Reports, 2020, 843 6,242-248. Upscaling smart local energy systems: A review of technical barriers. Renewable and Sustainable 844 8.2 37 Energy Reviews, 2020, 131, 110020. The design of 100 % renewable smart urb an energy systems: The case of Bozen-Bolzano. Energy, 2020, 207, 118198. 845 4.5 Facilitating renewables and power-to-gas via integrated electrical power-gas system scheduling. 846 5.1 36 Applied Energy, 2020, 275, 115082. Towards Optimal Sustainable Energy Systems in Nordic Municipalities. Energies, 2020, 13, 290. 847 1.6 Multi-Period Generation Expansion Planning for Sustainable Power Systems to Maximize the 848 1.6 24 Utilization of Renewable Energy Sources. Sustainability, 2020, 12, 1083. Renewable integration for remote communities: Comparative allowable cost analyses for hydro, 849 5.1 solar and wave energy. Applied Energy, 2020, 264, 114677. Implications of the Sustainable Development Goals on national energy demand: The case of Indonesia. 850 4.535 Energy, 2020, 196, 117100. A literature review of energy flexibility in district heating with a survey of the stakeholders' 8.2 participation. Renewable and Sustainable Energy Reviews, 2020, 123, 109750. The MATLAB Toolbox for EnergyPLAN: A tool to extend energy planning studies. Science of Computer 852 1.5 27 Programming, 2020, 191, 102405. Seeking for a climate change mitigation and adaptation nexus: Analysis of a long-term power system expansion. Applied Energy, 2020, 262, 114485. 5.1 A critical analysis on hybrid renewable energy modeling tools: An emerging opportunity to include social indicators to optimise systems in small communities. Renewable and Sustainable Energy 854 8.2 88 Reviews, 2020, 122, 109691. Exploring electricity generation alternatives for Canadian Arctic communities using a multi-objective 4.4 29 genetic algorithm approach. Energy Conversion and Management, 2020, 210, 112471. Long-term optimization of regional power sector development: Potential for cooperation in the 856 4.5 10 Eastern Nile region?. Energy, 2020, 201, 117703. Numerical investigation of soiling of multi-row rooftop solar PV arrays. International Journal of 1.3 Energy and Environmental Engineering, 2020, 11, 439-458.

#	Article	IF	CITATIONS
858	Dynamic life cycle economic and environmental assessment of residential solar photovoltaic systems. Science of the Total Environment, 2020, 722, 137932.	3.9	29
859	Modelling of renewable gas and renewable liquid fuels in future integrated energy systems. Applied Energy, 2020, 268, 114869.	5.1	33
860	Capturing the long-term interdependencies between building thermal energy supply and demand in urban planning strategies. Applied Energy, 2020, 268, 114774.	5.1	15
861	A Comprehensive State-of-the-Art Survey on Hybrid Renewable Energy System Operations and Planning. IEEE Access, 2020, 8, 75313-75346.	2.6	50
862	Reviewing Municipal Energy System Planning in a Bibliometric Analysis: Evolution of the Research Field between 1991 and 2019. Energies, 2020, 13, 1367.	1.6	19
863	Economic and performance investigation of hybrid PV/wind/battery energy system for isolated Andaman and Nicobar islands, India. International Journal of Ambient Energy, 2021, 42, 46-64.	1.4	10
864	How do energy systems model and scenario studies explicitly represent socio-economic, political and technological disruption and discontinuity? Implications for policy and practitioners. Energy Policy, 2021, 149, 111984.	4.2	17
865	Multi-objective optimization and multi-criteria decision-making methods for optimal design of standalone photovoltaic system: A comprehensive review. Renewable and Sustainable Energy Reviews, 2021, 135, 110202.	8.2	138
866	A Comparative Study of Recent Optimization Methods for Optimal Sizing of a Green Hybrid Traction Power Supply Substation. Archives of Computational Methods in Engineering, 2021, 28, 2351-2370.	6.0	4
867	Modeling and optimization of multi-energy systems in mixed-use districts: A review of existing methods and approaches. Renewable and Sustainable Energy Reviews, 2021, 135, 110206.	8.2	93
868	Improving policy making and strategic planning competencies of public authorities in the energy management of municipal public buildings: The PrioritEE toolbox and its application in five mediterranean areas. Renewable and Sustainable Energy Reviews, 2021, 135, 110106.	8.2	15
869	Towards a renewable-energy-driven district heating system: key technology, system design and integrated planning. , 2021, , 311-332.		2
870	Renewable energy based trigeneration systems—technologies, challenges and opportunities. , 2021, , 125-168.		3
871	Solar energy for sustainable heating and cooling energy system planning in arid climates. Energy, 2021, 218, 119421.	4.5	38
872	Quantifying network flexibility requirements in terms of energy storage. Renewable Energy, 2021, 167, 869-882.	4.3	2
873	Technoâ€economic planning of local energy systems through optimization models: a survey of current methods. International Journal of Energy Research, 2021, 45, 4888-4931.	2.2	23
874	Techno-economic optimization of a 100% renewable energy system in 2050 for countries with high shares of hydropower: The case of Portugal. Renewable Energy, 2021, 165, 491-503.	4.3	49
875	Suitability assessment of models in the industrial energy system design. Renewable and Sustainable Energy Reviews, 2021, 137, 110400.	8.2	7

#	Article	IF	CITATIONS
876	Assessing the need for flexibility technologies in decarbonized power systems: A new model applied to Central Europe. Applied Energy, 2021, 282, 116050.	5.1	39
877	The Swiss energy transition: Policies to address the Energy Trilemma. Energy Policy, 2021, 148, 111926.	4.2	21
878	Energy master planning for net-zero emission communities: State of the art and research challenges. Renewable and Sustainable Energy Reviews, 2021, 137, 110600.	8.2	28
879	Optimal operational strategy of hybrid PV/wind renewable energy system using homer: a case study. International Journal of Ambient Energy, 2022, 43, 3953-3966.	1.4	36
880	Perspective of comprehensive and comprehensible multi-model energy and climate science in Europe. Energy, 2021, 215, 119153.	4.5	57
881	Sustainable energy system modelling with a high renewable energy penetration rate for rich oil regions. International Journal of Sustainable Energy, 2021, 40, 494-513.	1.3	4
882	A proposal for analysis of operating reserve requirements considering renewable sources on supergrids. Electrical Engineering, 2021, 103, 529-540.	1.2	4
883	Sample average approximation and stability tests applied to energy system design. Energy Systems, 2021, 12, 107-131.	1.8	4
884	Off-Grid PV-Based Hybrid Renewable Energy Systems for Electricity Generation in Remote Areas. Green Energy and Technology, 2021, , 483-513.	0.4	1
885	Application of Heuristic Techniques and Evolutionary Algorithms in Microgrids Optimization Problems. Power Systems, 2021, , 219-251.	0.3	7
886	Renewable energy: a bibliometric analysis. E3S Web of Conferences, 2021, 250, 03002.	0.2	40
887	Study on performance degradation and damage modes of thin-film photovoltaic cell subjected to particle impact. Scientific Reports, 2021, 11, 782.	1.6	5
888	Implementation of an Integral Methodology for the Simulation of Renewable Energy Scenarios Applied to an Isolated Area. , 2021, , 158-192.		0
889	Implementation of an Integral Methodology for the Simulation of Renewable Energy Scenarios Applied to an Isolated Area. Advances in Business Strategy and Competitive Advantage Book Series, 2021, , 333-367.	0.2	0
890	To Represent Electric Vehicles in Electricity Systems Modelling—Aggregated Vehicle Representation vs. Individual Driving Profiles. Energies, 2021, 14, 539.	1.6	13
891	Toward a holistic approach for energy efficient buildings. , 2021, , 129-193.		2
892	Feasibility Limits for a Hybrid System with Ocean Wave and Ocean Current Power Plants in Southern Coast of Brazil. Computational Water Energy and Environmental Engineering, 2021, 10, 1-17.	0.4	2
894	Optimal Placement and Sizing of Energy-related Devices in Microgrids Using Grasshopper Optimization Algorithm. , 2021, , .		9

		CITATION REPORT		
#	Article		IF	Citations
895	Benchmarking Flexible Electric Loads Scheduling Algorithms. Energies, 2021, 14, 1269.		1.6	0
896	A Computer Program to Support the Selection of Turbines to Recover Unused Energy a Networks. Water (Switzerland), 2021, 13, 467.	t Hydraulic	1.2	6
897	Cross-Validation of the MEDEAS Energy-Economy-Environment Model with the Integrat MARKAL-EFOM System (TIMES) and the Long-Range Energy Alternatives Planning Syste Sustainability, 2021, 13, 1967.		1.6	13
898	EnergyPLAN – Advanced analysis of smart energy systems. Smart Energy, 2021, 1, 10	00007.	2.6	188
899	Trends and future studies on policies to improve renewable energy share. IOP Conferer Materials Science and Engineering, 2021, 1072, 012061.	ice Series:	0.3	0
900	MOHRES, a Software Tool for Analysis and Multiobjective Optimisation of Hybrid Renew Systems-An Overview of Capabilities. , 2021, , .	wable Energy		4
901	Advancing urban energy system planning and modeling approaches: Gaps and solution Renewable and Sustainable Energy Reviews, 2021, 137, 110607.	s in perspective.	8.2	46
902	Design and operation of hybrid renewable energy systems: current status and future pe Current Opinion in Chemical Engineering, 2021, 31, 100669.	erspectives.	3.8	22
903	Development of an Intelligent Power Management System for Solar PV-Wind-Battery-F Integrated System. Frontiers in Energy Research, 2021, 9, .	uel-Cell	1.2	11
904	Who is marginalized in energy justice? Amplifying community leader perspectives of er in Ghana. Energy Research and Social Science, 2021, 73, 101933.	ergy transitions	3.0	32
905	Quantifying the impact of low carbon transition scenarios at regional level through sof energy and economy models: The case of South-Tyrol Province in Italy. Energy, 2021, 2		4.5	13
906	Addressing rising energy needs of megacities – Case study of Greater Cairo. Energy a 236, 110789.	nd Buildings, 2021,	3.1	11
907	Optimisation of solar/wind/bio-generator/diesel/battery based microgrids for rural areas approach. Sustainable Cities and Society, 2021, 67, 102723.	s: A PSO-GWO	5.1	112
908	Long-term scenario pathways to assess the potential of best available technologies and reduction of avoided carbon emissions in an existing 100% renewable regional power s study of Gilgit-Baltistan (GB), Pakistan. Energy, 2021, 221, 119855.		4.5	26
909	Optimizing design and dispatch of a renewable energy system. Applied Energy, 2021, 2	287, 116527.	5.1	41
910	Replacing natural gas with solar and wind energy to supply the thermal demand of buil simulation approach. Sustainable Energy Technologies and Assessments, 2021, 44, 10	dings in Iran: A 1047.	1.7	14
911	The Demand Response Technology Cluster: Accelerating UK residential consumer enga time-of-use tariffs, electric vehicles and smart meters via digital comparison tools. Rene Sustainable Energy Reviews, 2021, 139, 110701.		8.2	37
912	Off-Grid Hybrid Electrical Generation Systems in Remote Communities: Trends and Cha Sustainability Solutions. Sustainability, 2021, 13, 5856.	racteristics in	1.6	8

#	Article	IF	CITATIONS
913	Assessment of the impact of the National Energy and Climate Plan on the Greek power system resource adequacy and operation. Electric Power Systems Research, 2021, 194, 107113.	2.1	8
914	Trends in tools and approaches for modelling the energy transition. Applied Energy, 2021, 290, 116731.	5.1	173
915	Assessment of the Water-Energy Nexus under Future Climate Change in the Nile River Basin. Climate, 2021, 9, 84.	1.2	2
916	Photovoltaic Prediction Software: Evaluation with Real Data from Northern Spain. Applied Sciences (Switzerland), 2021, 11, 5025.	1.3	16
917	Large-scale optimal integration of wind and solar photovoltaic power in water-energy systems on islands. Energy Conversion and Management, 2021, 235, 113982.	4.4	37
918	A review of the role of spatial resolution in energy systems modelling: Lessons learned and applicability to the North Sea region. Renewable and Sustainable Energy Reviews, 2021, 141, 110857.	8.2	40
919	Long-Range Integrated Development Analysis: The Cuban Isla de la Juventud Study Case. Energies, 2021, 14, 2865.	1.6	6
920	Computational framework for behind-the-meter DER techno-economic modeling and optimization: REopt Lite. Energy Systems, 2022, 13, 509-537.	1.8	10
921	Studies on Optimal Strategy to Adopt Nuclear Power Plants into Saudi Arabian Energy System Using MESSAGE Tool. Science and Technology of Nuclear Installations, 2021, 2021, 1-26.	0.3	4
922	How Do Energy-Economy Models Compare? A Survey of Model Developers and Users in Canada. Sustainability, 2021, 13, 5789.	1.6	2
923	Towards 100% Renewables by 2030: Transition Alternatives for a Sustainable Electricity Sector in Isla de la Juventud, Cuba. Energies, 2021, 14, 2862.	1.6	12
924	Sustainable energy development: History of the concept and emerging themes. Renewable and Sustainable Energy Reviews, 2021, 141, 110770.	8.2	88
925	Integrated computation of corrosion: Modelling, simulation and applications. Corrosion Communications, 2021, 2, 8-23.	2.7	22
926	Techno-Economic Performance Analysis of GridInterfaced Microgrid for Different Facilities. , 2021, , .		0
927	Proposal of 100% renewable energy production for the City of Cuenca- Ecuador by 2050. Renewable Energy, 2021, 170, 1324-1341.	4.3	32
928	Modelling industry energy demand using multiple linear regression analysis based on consumed quantity of goods. Energy, 2021, 225, 120270.	4.5	29
929	PyLESA: A Python modelling tool for planning-level Local, integrated, and smart Energy Systems Analysis. SoftwareX, 2021, 14, 100699.	1.2	4
930	Multi-Period Multi-Criteria Decision Making under Uncertainty: A Renewable Energy Transition Case from Germany. Sustainability, 2021, 13, 6300.	1.6	14

#	Article	IF	CITATIONS
931	Frameworks, quantitative indicators, characters, and modeling approaches to analysis of energy system resilience: A review. Renewable and Sustainable Energy Reviews, 2021, 144, 110988.	8.2	63
932	A review of hybrid renewable energy systems in mini-grids for off-grid electrification in developing countries. Renewable and Sustainable Energy Reviews, 2021, 144, 111036.	8.2	120
933	Small hydropower dam site suitability modelling in upper Benue river watershed, Nigeria. Applied Water Science, 2021, 11, 1.	2.8	10
934	Impacts of Electric Road Systems on the German and Swedish Electricity Systems—An Energy System Model Comparison. Frontiers in Energy Research, 2021, 9, .	1.2	7
935	Local energy planning in the built environment: An analysis of model characteristics. Renewable and Sustainable Energy Reviews, 2021, 144, 111030.	8.2	14
936	How Much Building Renewable Energy Is Enough? The Vertical City Weather Generator (VCWG v1.4.4). Atmosphere, 2021, 12, 882.	1.0	11
937	Integrating Behavioural Aspects in Energy System Modelling—A Review. Energies, 2021, 14, 4579.	1.6	17
938	Extension of Energy and Transport Scenario Modelling to Include a Life Cycle Perspective. Future Transportation, 2021, 1, 188-201.	1.3	1
939	Comparative Analysis between Dynamic and Quasi-Steady-State Methods at an Urban Scale on a Social-Housing District in Venice. Energies, 2021, 14, 5164.	1.6	8
940	Energy transition in petroleum rich nations: Case study of Iran. Smart Energy, 2021, 3, 100026.	2.6	25
941	Soft computing tool for aiding the integration of hybrid sustainable renewable energy systems, case of Putumayo, Colombia. Renewable Energy, 2021, 174, 616-634.	4.3	11
942	The sensitivity of power system expansion models. Joule, 2021, 5, 2606-2624.	11.7	23
943	Energy planning tools applied into urban photovoltaic: the importance of compatibilizing with the constructions. Renewable Energy and Power Quality Journal, 0, 19, 229-234.	0.2	1
944	Future energy planning to maximize renewable energy share for the south Caspian Sea climate. Renewable Energy, 2021, 175, 660-675.	4.3	23
945	A new multiscale tool for simulating smart-grid energy management based on a systemic approach. Computers and Electrical Engineering, 2021, 94, 107292.	3.0	6
946	A review of spatial resolution and regionalisation in national-scale energy systems optimisation models. Energy Strategy Reviews, 2021, 37, 100702.	3.3	38
947	Simulation of Centralized and Decentralized Photovoltaic Generation Systems for Isolated Sectors of the Electricity Grid. Smart Innovation, Systems and Technologies, 2022, , 85-95.	0.5	1
948	COMANDO: A Next-Generation Open-Source Framework for Energy Systems Optimization. Computers and Chemical Engineering, 2021, 152, 107366.	2.0	18

#	Article	IF	CITATIONS
949	Realistic coordination and sizing of a solar array combined with pumped hydro storage system. Journal of Energy Storage, 2021, 41, 102915.	3.9	21
950	Energy storage integration with solar PV for increased electricity access: A case study of Burkina Faso. Energy, 2021, 230, 120656.	4.5	20
951	Dynamic aware aging design of a simple distributed energy system: A comparative approach with single stage design strategies. Renewable and Sustainable Energy Reviews, 2021, 147, 111104.	8.2	4
952	Transition towards decarbonisation for islands: Development of an integrated energy planning platform and application. Sustainable Energy Technologies and Assessments, 2021, 47, 101501.	1.7	4
953	Role of energy efficiency and distributed renewable energy in designing carbon neutral residential buildings and communities: Case study of Saudi Arabia. Energy and Buildings, 2021, 250, 111309.	3.1	34
954	Incorporating uncertainties towards a sustainable European energy system: A stochastic approach for decarbonization paths focusing on the transport sector. Energy Strategy Reviews, 2021, 38, 100707.	3.3	8
955	Integration of WtE and district cooling in existing Gas-CHP based district heating system – Central European city perspective. Smart Energy, 2021, 4, 100043.	2.6	16
956	Effectiveness of building stock sustainability measures in a low-carbon energy system: A scenario analysis for Finland until 2050. Energy, 2021, 235, 121399.	4.5	16
957	A review of existing deep decarbonization models and their potential in policymaking. Renewable and Sustainable Energy Reviews, 2021, 152, 111655.	8.2	10
958	Multi-criteria decision support: A case study of Southeast Europe power systems. Utilities Policy, 2021, 73, 101286.	2.1	10
959	Definitions and dimensions for electricity security assessment: A Review. Sustainable Energy Technologies and Assessments, 2021, 48, 101626.	1.7	7
960	Planning level sizing of heat pumps and hot water tanks incorporating model predictive control and future electricity tariffs. Energy, 2022, 238, 121731.	4.5	11
961	An outlook of end-use energy demand based on a clean energy and technology transformation of the household sector in Nepal. Energy, 2022, 238, 121810.	4.5	17
962	100% Sustainable Electricity in the Faroe Islands: Expansion Planning Through Economic Optimization. IEEE Open Access Journal of Power and Energy, 2021, 8, 23-34.	2.5	26
963	Polish Energy Transition 2040: Energy Mix Optimization Using Grey Wolf Optimizer. Energies, 2021, 14, 501.	1.6	21
964	Unraveling the Black Box of Power Market Models. SSRN Electronic Journal, 0, , .	0.4	0
965	Is Energy Planning Moving Towards Sustainable Development? A Review of Energy Systems Modeling and Their Focus on Sustainability. World Sustainability Series, 2020, , 629-644.	0.3	1
966	A Simulation Gaming Approach to Micro-grid Design and Planning: Participatory Design and Capacity Building. Springer Proceedings in Energy, 2015, , 79-88.	0.2	1

CITATION REPORT ARTICLE IF CITATIONS Integrating Social Acceptance of Electricity Grid Expansion into Energy System Modeling: A 968 0.5 3 Methodological Approach for Germany. Progress in IS, 2017, , 115-129. Scenario Analysis of Low-Carbon Smart Electricity Systems in Japan in 2030. Green Energy and 969 0.4 Technology, 2012, , 33-44. Linking Neighborhoods into Sustainable Energy Systems. Energy, Environment, and Sustainability, 2019, 970 0.6 1 ,93-110. Project-level multi-modal energy system design - Novel approach for considering detailed component models and example case study for airports. Energy, 2017, 133, 691-709. Considering supply and demand of electric energy in life cycle assessments – a review of current 0.3 5 methodologies. Materiaux Et Techniques, 2015, 103, 105. Photovoltaic Technologies: History, Advances, and Characterization., 2014, , 1397-1424. Dynamic Modeling of Kosovo's Electricity Supply-Demand, Gaseous Emissions and Air Pollution. 0.9 5 Journal of Sustainable Development of Energy, Water and Environment Systems, 2015, 3, 303-314. Overview of the hybrid solar system. Analecta Technica Szegedinensia, 2020, 14, 100-108. 0.2 Modelling energy supply options for electricity generations in Tanzania. Journal of Energy in 0.5 24 Southern Africa, 2015, 26, 41-57. Solar-Wind Renewable Energy System for Off-Grid Rural Electrification in Ecuador., 0, , . Borehole Resistance and Heat Conduction Around Vertical Ground Heat Exchangers. Open Chemical 980 17 0.4 Engineering Journal, 2012, 6, 32-40. Integrating the flexibility of the average Serbian consumer as a virtual storage option into the 0.5 planning of energy systems. Thermal Science, 2014, 18, 743-754. A realistic EU vision of a lignite-based energy system in transition: Case study of Serbia. Thermal 982 0.5 11 Science, 2015, 19, 371-382. Impact of new power investments up to year 2020 on the energy system of Bosnia and Herzegovina. Thermal Science, 2015, 19, 771-780 Campus and community micro grids integration of building integrated photovoltaic renewable energy 0.55 sources: Case study of Split 3 area, Croatia - part A. Thermal Science, 2016, 20, 1135-1145. Energy Consumption Modeling in the Western Balkan Countries Using a Top-Down Approach. Academic Journal of Interdisciplinary Studies, 2018, 7, 35-41. A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent 986 0.4 9 Developments. European Journal of Sustainable Development Research, 2020, 4, em0138.

Feasibility Study of Solar-Wind Based Standalone Hybrid System for Application in Ethiopia., 2011, , .

#

971

973

974

975

976

977

978

981

#	Article	IF	CITATIONS
989	A Hydro PV Hybrid System as a New Concept for an Abandoned Dam in Southern Brazil*. Computational Water Energy and Environmental Engineering, 2019, 08, 41-56.	0.4	5
991	SPATIOTEMPORAL MODELING FOR ASSESSING COMPLEMENTARITY OF RENEWABLE ENERGY SOURCES IN DISTRIBUTED ENERGY SYSTEMS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-4/W2, 147-154.	0.0	10
994	Dataset after Seven Years Simulating Hybrid Energy Systems with Homer Legacy. Data Science Journal, 2020, 19, .	0.6	2
995	INTEGRATION COSTS OF RENEWABLE ENERGY TECHNOLOGIES IN FUTURE ENERGY GENERATION SCENARIOS. South African Journal of Industrial Engineering, 2018, 29, .	0.2	1
996	Prediction of Transportation Energy Demand by Novel Hybrid Meta-Heuristic ANN. SSRN Electronic Journal, 0, , .	0.4	0
997	Wind-Based Stand-Alone Hybrid Energy Systems. , 2022, , 749-793.		2
998	Scenarios of Operation of an Energy Production System of a Hybrid WT/PV System of a Bioecological Infrastructure. , 2021, , .		0
1000	Using Genersys to model electricity generation expansion. , 0, , .		0
1001	A Methodology for Designing Future Zero-Carbon Electricity Systems with Smart Grid and Its Application to Kansai Area, Japan. , 2012, , 50-54.		1
1002	Multicommodity Equilibrium Models: Accounting for Demand-Side Linkages. Profiles in Operations Research, 2013, , 515-560.	0.3	0
1004	Computer Tools for Modelling and Evaluating the Potential of Energy Storage Systems with Reference to the Greek Islands Case. Lecture Notes in Electrical Engineering, 2013, , 51-68.	0.3	0
1005	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
1006	Data File of the Building Site's Renewable Energy Characteristics. Springer Proceedings in Physics, 2014, , 405-410.	0.1	0
1009	Estimation of Greenhouse Gas Emissions (GHG) Inventory and Reduction Plans for Low Carbon Green Campus in Daegu University. Daehan Hwan'gyeong Gonghag Hoeji, 2014, 36, 506-513.	0.4	3
1010	ICT-Based Solutions Supporting Energy Systems for Smart Cities. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 136-164.	0.3	2
1012	Meta-Analysis of Energy Scenario Studies: Example of Electricity Scenarios for Switzerland. SSRN Electronic Journal, 0, , .	0.4	0
1013	Dynamic mathematical programming model with stochastic variable for the development of the National Nuclear Power Sector. The Problems of General Energy, 2015, 2015, 5-19.	0.5	0
1014	Efficient Energy Performance within Smart Grid. Smart Grid and Renewable Energy, 2017, 08, 75-86.	0.7	1

# 1016	Article VILNIAUS MIESTO CENTRALIZUOTO ÅILUMOS TIEKIMO SISTEMOS ÅILUMOS GAMYBOS ALTERNATYVOS. , 2017, , .	IF	CITATIONS
1017	DAUGIABUÄŒIŲ NAMŲ KVARTALO APRŪPINIMO ÅILUMA ALTERNATYVŲ ANALIZÄ–. , 2017, , .		0
1018	Energy and Climate Planning: The Role of Analytical Tools and Soft Measures. , 2017, , 13-47.		0
1019	Optimal technical and economic strategy for retrofitting residential buildings in Romania. Proceedings of the International Conference on Business Excellence, 2017, 11, 146-156.	0.1	0
1020	1 Desalination. Green Chemistry and Chemical Engineering, 2017, , 1-68.	0.0	2
1021	ICT-Based Solutions Supporting Energy Systems for Smart Cities. , 2018, , 80-108.		0
1022	Mathematical modeling of competitive equilibrium in electricity markets. Visnik Nacional Noi Academii Nauk Ukrai Ni, 2018, 04, 53-67.	0.0	5
1023	Methodology and Methods of Mathematical Modeling of Energy Engineering in Market Conditions. Modelling and Simulation in Engineering, 2018, 40, 3-32.	0.0	5
1024	ECONOMICALLY OPTIMAL DESIGN OF HYBRID RENEWABLE ENERGY SYSTEMS USING HOMER AND ACO. Journal of Al-Azhar University Engineering Sector, 2018, 13, 1016-1030.	0.1	0
1025	SHAPING OF AN AUTONOMOUS POWER SYSTEM FOR GUARANTEED POWER SUPPLY WITH THE PREDOMINANCE WIND ENERGY. Alternative Energy and Ecology (ISJAEE), 2018, , 28-50.	0.2	Ο
1026	CCS in Electricity Systems. RSC Energy and Environment Series, 2019, , 392-425.	0.2	0
1027	A Hydro PV Hybrid System for the Laranjeiras Dam (in Southern Brazil) Operating with Storage Capacity in the Water Reservoir. Smart Grid and Renewable Energy, 2019, 10, 83-97.	0.7	2
1028	ICT-Based Solutions Supporting Energy Systems for Smart Cities. , 2019, , 549-577.		0
1029	Temporal studies of power system under dynamic switching and faults. , 2019, , .		Ο
1030	Real-Time Testing Technology of Powertrain System in Proton Exchange Membrane Fuel Cell Electric Vehicles: A Review. , 0, , .		1
1031	ĐœĐ°Ñ,ĐµĐ¼Đ°Ñ,Đ,Ñ‡Đ½Đ° Đ¼Đ¾ĐĐµĐ»ÑŒ Đ²Đ,Ñ€Đ¾Đ±Đ½Đ,цÑ,Đ²Đ° ĐµĐ»ĐµĐºÑ,Ñ€Đ¾ĐµĐ½ĐµÑ	€Ð.30Ñ−Ñ−	- ⊕ µÐ¹⁄₂еÌ
1032	Modeling Renewable Energy Integration in the 2030 Portuguese Power System: The Role of Energy Storage. Journal of Electrochemical Energy Conversion and Storage, 2020, 17, .	1.1	1
1033	Development of Economic Evaluation Solution and Power Prediction of Renewable Energy System. Journal of the Korean Solar Energy Society, 2019, 39, 93-112.	0.1	2

#	Article	IF	Citations
1034	Designing photovoltaic arrays for groundwater pumping for remote agriculture using synthetically generated daily rainfall and irrigation needs. Journal of Engineering, Design and Technology, 2023, 21, 1803-1826.	1.1	2
1035	Retrospective Models of Wind Power Plants and Solar Power Plants in the Problems of Planning the Models of Electric Power Systems. Modelling and Simulation in Engineering, 2020, 42, 18-33.	0.0	0
1036	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
1037	Techno-Economics of Solar PV Systems on the Commercial Malls Rooftops. , 2020, , .		0
1038	ENERGY MANAGEMENT SOFTWARE FOR STUDENTS IN ENGINEERING EDUCATION. European Journal of Technic, 0, , .	0.2	0
1039	Deep decarbonisation of regional energy systems: A novel modelling approach and its application to the Italian energy transition. Renewable and Sustainable Energy Reviews, 2022, 153, 111730.	8.2	24
1040	Reviewing two decades of energy system analysis with bibliometrics. Renewable and Sustainable Energy Reviews, 2022, 153, 111749.	8.2	19
1041	Simulação computacional como ferramenta de otimização na geração de energia solar fotovoltaica. Urbe, 0, 12, .	0.3	1
1043	Review of Data and Data Sources for the Assessment of the Potential of Utility-Scale Hybrid Wind–Solar PV Power Plants Deployment, under a Microgrid Scope. Energies, 2021, 14, 7434.	1.6	4
1044	pycity_scheduling—A Python framework for the development and assessment of optimisation-based power scheduling algorithms for multi-energy systems in city districts. SoftwareX, 2021, 16, 100839.	1.2	4
1046	How to Reach the New Green Deal Targets: Analysing the Necessary Burden Sharing within the EU Using a Multi-Model Approach. Energies, 2021, 14, 7971.	1.6	5
1047	A Dynamic Optimization Tool to Size and Operate Solar Thermal District Heating Networks Production Plants. Energies, 2021, 14, 8003.	1.6	11
1048	Incorporation of wind power probabilities into long-term energy system development analysis using bottom-up models. Energy Strategy Reviews, 2021, 38, 100770.	3.3	2
1049	Flexibility options and their representation in open energy modelling tools. Energy Strategy Reviews, 2021, 38, 100737.	3.3	13
1050	Sizing approaches for solar photovoltaicâ€based microgrids: A comprehensive review. IET Energy Systems Integration, 2022, 4, 1-27.	1.1	12
1051	A Review of Energy Modeling Tools for Energy Efficiency in Smart Cities. Smart Cities, 2021, 4, 1420-1436.	5.5	20
1052	Techno-Economic Feasibility of Grid-Connected Solar PV System at Near East University Hospital, Northern Cyprus. Energies, 2021, 14, 7627.	1.6	20
1053	An expert survey to assess the current status and future challenges of energy system analysis. Smart Energy, 2021, 4, 100057.	2.6	11

		CITATION R	EPORT	
#	Article		IF	Citations
1054	Classifying and modelling demand response in power systems. Energy, 2022, 242, 122	2544.	4.5	33
1055	A system dynamics approach to pollution remediation and mitigation based on increas renewable resources. Environmental Research, 2022, 205, 112458.	ing the share of	3.7	13
1056	A MCDM-based framework for the selection of renewable energy system simulation to and learning at university level. Environment, Development and Sustainability, 2022, 2	ol for teaching 4, 13035-13056.	2.7	6
1057	Evaluation of Renewable Energy System For Sustainable Development. Renewable Ene Environmental Sustainability, 2021, 6, 44.	rgy and	0.7	1
1058	From Nuclear to PV and Hydro Storage. Should We Go All the Way?. SSRN Electronic Jo	ournal, O, , .	0.4	0
1059	Multi-Criteria Decision Making Optimisation Framework for Positive Energy Blocks for Sustainability, 2022, 14, 446.	Cities.	1.6	10
1060	Simulation and analysis of integrated energy conversion and storage systems using Cle Energy Reports, 2022, 8, 1372-1382.	oudPSS-IESLab.	2.5	4
1061	Assessment of the impact of an Incentive-Based Demand Side Management Strategy c BESS for Stand-Alone Microgrids. , 2020, , .	over the sizing of		0
1062	Comparative Analysis of the Implementation of Solar PV Systems using the ECOS Mod Software: A Kenyan Scenario. , 2020, , .	el and HOMER		0
1063	The Balance of Power Differentials and Its Application for the Analysis of Electric Power 2020, , .	r Systems. ,		7
1064	Solar Photovoltaic Energy and Pumped Hydro Storage System Coupling in Southern Co	ountries. , 2021, ,		1
1065	Study of Namangan 130 kW Photovoltaic System Simulation and Analysis of One-Year Generation Results. Applied Solar Energy (English Translation of Geliotekhnika), 2021,		0.2	1
1066	Optimizing design and dispatch of a renewable energy system with combined heat and Optimization and Engineering, 2022, 23, 1-31.	1 power.	1.3	12
1067	Assessing and Monitoring of Building Performance by Diverse Methods. Sustainability,	2022, 14, 1242.	1.6	14
1068	Hybrid Optimization Methods Application on Sizing and Solving the Economic Dispatc Hybrid Renewable Power Systems. Advances in Environmental Engineering and Green Book Series, 2022, , 136-165.	h Problems of Fechnologies	0.3	3
1069	Calculation and Numerical Simulation of Building Integrated Photovoltaic System Base Technology. Lecture Notes of the Institute for Computer Sciences, Social-Informatics a Telecommunications Engineering, 2022, , 226-238.		0.2	0
1070	Modeling flexibility in energy systems — comparison of power sector models based c cases. Renewable and Sustainable Energy Reviews, 2022, 158, 111995.	n simplified test	8.2	11
1071	Which model features matter? An experimental approach to evaluate power market m Energy, 2022, 245, 123301.	odeling choices.	4.5	16

#	Article	IF	CITATIONS
1072	MyPyPSA-Ger: Introducing CO2 taxes on a multi-regional myopic roadmap of the German electricity system towards achieving the 1.5°C target by 2050. Applied Energy, 2022, 310, 118576.	5.1	11
1073	Integration of flexibility potentials of district heating systems into electricity markets: A review. Renewable and Sustainable Energy Reviews, 2022, 159, 112200.	8.2	28
1075	Implications of Electric Vehicle Promotion Policy on the Road Transport and Electricity Sectors for Thailand. SSRN Electronic Journal, 0, , .	0.4	0
1077	City-Level Transition to Low-Carbon Economy. Energies, 2022, 15, 1737.	1.6	7
1078	Evaluating and forecasting direct carbon emissions of electricity production: A case study for South East Europe. Energy Sources, Part B: Economics, Planning and Policy, 2022, 17, .	1.8	4
1079	Applicability of Hydropower Generation and Pumped Hydro Energy Storage in the Middle East and North Africa. Energies, 2022, 15, 2412.	1.6	31
1080	Simulation and optimization of hydrogen-based hybrid renewable energy systems: Software tools and applications. Journal of Physics: Conference Series, 2022, 2208, 012018.	0.3	0
1081	Decarbonization of the Galapagos Islands. Proposal to transform the energy system into 100% renewable by 2050. Renewable Energy, 2022, 189, 199-220.	4.3	26
1082	The role of U.SCanada electricity trade in North American decarbonization pathways. Energy Strategy Reviews, 2022, 41, 100827.	3.3	8
1083	Analysis of controls for integrated energy storage system in energy arbitrage configuration with concrete thermal energy storage. Applied Energy, 2022, 313, 118800.	5.1	3
1084	Prediction of transportation energy demand by novel hybrid meta-heuristic ANN. Energy, 2022, 249, 123735.	4.5	22
1085	Code exposed: Review of five open-source frameworks for modeling renewable energy systems. Renewable and Sustainable Energy Reviews, 2022, 161, 112272.	8.2	15
1086	Hybrid Renewable Energy Systems' Optimisation. A Review and Extended Comparison of the Most-Used Software Tools. Energies, 2021, 14, 8268.	1.6	24
1087	Exploring sustainable heating solutions for buildings at the neighbourhood level. Energy Efficiency, 2021, 14, 1.	1.3	3
1089	Integrated energy planning to meet 2050 European targets: A Southern Italian region case study. Energy Strategy Reviews, 2022, 41, 100844.	3.3	10
1090	National energy system optimization modelling for decarbonization pathways analysis: A systematic literature review. Renewable and Sustainable Energy Reviews, 2022, 162, 112406.	8.2	30
1094	Optimal Photovoltaic Panel Direction and Tilt Angle Prediction Using Stacking Ensemble Learning. Frontiers in Energy Research, 2022, 10, .	1.2	11
1095	A Review on different Parametric Aspects and Sizing Methodologies of Hybrid Renewable Energy System. Journal of the Institution of Engineers (India): Series B, 2022, 103, 1345-1354.	1.3	5

#	Article	IF	CITATIONS
1096	Artificial cell swarm optimization and vapor liquid equilibrium for energy management system in smart grid. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 0, , .	1.2	2
1097	Ex-post design, operations and financial cost-benefit analysis of mini-grids in Ghana: What can we learn?. Energy for Sustainable Development, 2022, 68, 390-409.	2.0	5
1098	Comparison of different methods of spatial disaggregation of electricity generation and consumption time series. Renewable and Sustainable Energy Reviews, 2022, 163, 112186.	8.2	4
1099	Assessing the potential of seasonal thermal storage for local energy systems: Case study for a neighborhood in Norway. Smart Energy, 2022, 6, 100075.	2.6	3
1100	Model experiments in operational energy system analysis: Power grid focused scenario comparisons. Renewable and Sustainable Energy Reviews, 2022, 164, 112550.	8.2	3
1102	Planning, Optimisation and Evaluation of Small Power-to-Gas-to-Power Systems: Case Study of a German Dairy. Sustainability, 2022, 14, 6050.	1.6	2
1103	Energy Storage Technologies; Recent Advances, Challenges, and Prospectives. Engergy Systems in Electrical Engineering, 2022, , 125-150.	0.5	5
1104	3D CFD modelling of dust deposition characteristics and influences on building-mounted photovoltaic system. Case Studies in Thermal Engineering, 2022, 35, 102138.	2.8	5
1105	Impacts of model structure, framework, and flexibility on perspectives of 100% renewable energy transition decision-making. Renewable and Sustainable Energy Reviews, 2022, 164, 112452.	8.2	27
1106	Review and validation of photovoltaic solar simulation tools/software based on case study. Open Physics, 2022, 20, 431-451.	0.8	30
1107	The role of power-to-X in hybrid renewable energy systems: A comprehensive review. Renewable and Sustainable Energy Reviews, 2022, 165, 112380.	8.2	31
1108	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.	1.4	1
1109	UCB-SEnMod: A Model for Analyzing Future Energy Systems with 100% Renewable Energy Technologies—Methodology. Energies, 2022, 15, 4383.	1.6	0
1110	Platform for transverse evaluation of control strategies for multi-energy smart grids. Smart Energy, 2022, 7, 100079.	2.6	6
1111	Comparison of open access multi-objective optimization software tools for standalone hybrid renewable energy systems. , 2022, , 111-128.		0
1112	Integrated energy planning and modeling (IEPM) for sustainable electricity generation in Pakistan: <i>Challenges and limitations</i> . Energy Exploration and Exploitation, 2022, 40, 1806-1836.	1.1	3
1113	The business-economic energy system modelling tool energyPRO. Energy, 2022, 257, 124792.	4.5	10
1114	Beyond cost reduction: improving the value of energy storage in electricity systems. , 2022, 1, .		10

#	Article	IF	CITATIONS
1115	Decarbonization of China's electricity systems with hydropower penetration and pumped-hydro storage: Comparing the policies with a techno-economic analysis. Renewable Energy, 2022, 196, 65-83.	4.3	29
1116	Comparison methods of energy system frameworks, models and scenario results. Renewable and Sustainable Energy Reviews, 2022, 167, 112719.	8.2	3
1117	Implications of electric vehicle promotion policy on the road transport and electricity sectors for Thailand. Energy Strategy Reviews, 2022, 42, 100901.	3.3	6
1119	A systematic review of solar photovoltaic energy systems design modelling, algorithms, and software. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 6709-6736.	1.2	14
1120	A Study on Integrating SMRs into Uganda's Future Energy System. Sustainability, 2022, 14, 10033.	1.6	4
1121	Degradation prediction of proton exchange membrane fuel cell based on Bi-LSTM-GRU and ESN fusion prognostic framework. International Journal of Hydrogen Energy, 2022, 47, 33466-33478.	3.8	17
1122	New approach for assessing and optimising the environmental performance of multinational electricity sectors: A European case study. Energy Conversion and Management, 2022, 268, 116023.	4.4	8
1123	Capturing features of hourly-resolution energy models through statistical annual indicators. Renewable Energy, 2022, 197, 1192-1223.	4.3	3
1124	How energy subsidy reform can drive the Iranian power sector towards a low-carbon future. Energy Policy, 2022, 169, 113190.	4.2	11
1125	Techno-economic modelling and optimisation of excess heat and cold recovery for industries: A review. Renewable and Sustainable Energy Reviews, 2022, 168, 112811.	8.2	1
1126	Integration of non-energy among the end-use demands of bottom-up whole-energy system models. Frontiers in Energy Research, 0, 10, .	1.2	3
1127	A review of micro hydro systems in urban areas: Opportunities and challenges. Renewable and Sustainable Energy Reviews, 2022, 169, 112866.	8.2	12
1128	On the History and Future of 100% Renewable Energy Systems Research. IEEE Access, 2022, 10, 78176-78218.	2.6	138
1129	Investigation of Heat Pump Efficiency in Baltic States Using TRNSYS Simulation Tool. Environmental and Climate Technologies, 2022, 26, 548-560.	0.5	2
1130	Optimization and Simulation Analysis of the Energy-Intensity Based Renewable Energy Supply Obligation Regulation. SSRN Electronic Journal, 0, , .	0.4	0
1131	ENECO2Calc—A Modeling Tool for the Investigation of Energy Transition Paths toward Climate Neutrality within Municipalities. Energies, 2022, 15, 7162.	1.6	3
1132	Comparative Analysis of Hybrid Renewable Energy System Using Homer: A Case Study of Silchar, India. Lecture Notes in Mechanical Engineering, 2023, , 509-522.	0.3	0
1133	Changes in Energy Sector Strategies: A Literature Review. Energies, 2022, 15, 7068.	1.6	14

#	Article	IF	CITATIONS
1134	System sizing and transient simulation of a solar photovoltaic off-grid energy system in various climates with air heat pumps. Sustainable Energy Technologies and Assessments, 2022, 54, 102788.	1.7	2
1136	Fifth-generation district heating and cooling systems: A review of recent advancements and implementation barriers. Renewable and Sustainable Energy Reviews, 2023, 171, 112997.	8.2	28
1137	Review on 100% Renewable Energy System Analyses—A Bibliometric Perspective. IEEE Access, 2022, 10, 125792-125834.	2.6	36
1138	Comparison of Two Simulation Methods for the Technical Feasibility of a District Heating System Using Waste Heat from a Copper Plant with Thermal Storage. , 2017, , .		3
1139	A comprehensive review of techno-socio-enviro-economic parameters, storage technologies, sizing methods and control management for integrated renewable energy system. Sustainable Energy Technologies and Assessments, 2022, 54, 102849.	1.7	8
1140	How do the electricity market and carbon market interact and achieve integrated development?A bibliometric-based review. Energy, 2023, 265, 126308.	4.5	11
1141	Smart strategies for the penetration of 100% renewable energy for the Ecuadorian Amazon region by 2050. Journal of Cleaner Production, 2023, 382, 135298.	4.6	9
1142	Perspectives on purpose-driven coupling of energy system models. Energy, 2023, 265, 126335.	4.5	18
1143	Energy system transition pathways to meet the global electricity demand for ambitious climate targets and cost competitiveness. Applied Energy, 2023, 331, 120401.	5.1	37
1144	A review of European low-voltage distribution networks. Renewable and Sustainable Energy Reviews, 2023, 173, 113056.	8.2	2
1145	Optimal Sustainable Transport Solutions Integrated into a Nordic Municipal Energy System. , 2019, , .		0
1146	Open Data Based Model of the Dutch High-Voltage Power System. , 2022, , .		0
1147	Hybrid Power Systems: Solution to Rural Electrification. Current Sustainable/Renewable Energy Reports, 2022, 9, 77-93.	1.2	1
1148	Effect of Nitrogen Doping on Tribological Properties of Ta2O5 Coatings Deposited by RF Magnetron Sputtering. Materials, 2022, 15, 8291.	1.3	0
1149	Hydrogen-powered aviation in Germany: A macroeconomic perspective and methodological approach of fuel supply chain integration into an economy-wide dataset. International Journal of Hydrogen Energy, 2023, 48, 5347-5376.	3.8	9
1150	A review on dataâ€centric decision tools for offshore wind operation and maintenance activities: Challenges and opportunities. Energy Science and Engineering, 2023, 11, 1501-1515.	1.9	4
1151	Sustainability Information Provision (SIP) framework: A review of the promotion of sustainability in the residential sector. Building and Environment, 2022, , 109930.	3.0	0
1152	Review of Efficiency Improvement Technologies of Wind Diesel Hybrid Systems for Decreasing Fuel Consumption. Energies, 2023, 16, 184.	1.6	1

#	Article	IF	CITATIONS
1153	Small-Scale Hybrid and Polygeneration Renewable Energy Systems: Energy Generation and Storage Technologies, Applications, and Analysis Methodology. Energies, 2022, 15, 9152.	1.6	9
1155	Quantifying social costs of coal-fired power plant generation. Geography and Sustainability, 2023, 4, 39-48.	1.9	4
1156	Modeling alternative scenarios for Egypt 2050 energy mix based on LEAP analysis. Energy, 2023, 266, 126615.	4.5	11
1157	nPro: A web-based planning tool for designing district energy systems and thermal networks. Energy, 2023, 268, 126575.	4.5	4
1158	A new approach for modelling techno-economic performance of integrated energy systems on district scale for informed decision-making in a multi-stakeholder context. Renewable and Sustainable Energy Transition, 2023, 3, 100045.	1.4	2
1159	Review of Smart City Energy Modeling in Southeast Asia. Smart Cities, 2023, 6, 72-99.	5.5	13
1160	Review: Analysis of superstructures for hydrogen supply chain modeling. , 2023, , 165-181.		1
1161	Design and operation of hydrogen supply chains: A review on technology integration and system optimization. , 2023, , 115-164.		0
1162	Optimized Operation and Sizing of Solar District Heating Networks with Small Daily Storage. Energies, 2023, 16, 1335.	1.6	3
1163	A review of geographic information system (GIS) and techno economic (TE) software tools for renewable energy and methodology to develop a coupled GIS-TE software tool for marine renewable energy (MRE). Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 0., 147509022211500.	0.3	1
1164	Open access decision support for sustainable buildings and neighborhoods: The nano energy system simulator NESSI. Building and Environment, 2023, 237, 110296.	3.0	0
1165	Sector coupling of electricity, transport and cooling with high share integration of renewables in Indonesia. Smart Energy, 2023, 10, 100102.	2.6	1
1166	Energy system analysis with a focus on future energy demand projections: The case of Norway. Energy, 2023, 272, 127107.	4.5	16
1167	Hierarchical approach to energy system modelling: Complexity reduction with minor changes in results. Energy, 2023, 273, 127213.	4.5	4
1168	Modeling the transition to a zero emission energy system: A cross-sectoral review of building, transportation, and electricity system models in Canada. Energy Reports, 2023, 9, 4380-4400.	2.5	6
1169	A comparison analysis of different PV simulation tools using satellite data. Electrical Engineering, 0, ,	1.2	0
1170	Smart Grids to Lower Energy Usage and Carbon Emissions: Case Study Examples from Colombia and Turkey. , 2022, , 1529-1545.		0
1171	An optimisation tool for minimising fuel consumption, costs and emissions from Diesel-PV-Battery hybrid microgrids. Applied Energy, 2023, 335, 120748.	5.1	8

#	Article	IF	CITATIONS
1172	A model for energy master planning and resilience assessment of net-zero emissions community. Sustainable and Resilient Infrastructure, 0, , 1-25.	1.7	1
1173	The Impacts of Energy Efficiency Modelling in Policy Making. Energies, 2023, 16, 1811.	1.6	3
1174	A thermodynamic-based mixed-integer linear model of post-combustion carbon capture for reliable use in energy system optimisation. Applied Energy, 2023, 336, 120738.	5.1	4
1175	A comprehensive review on optimization of hybrid renewable energy systems using various optimization techniques. Renewable and Sustainable Energy Reviews, 2023, 176, 113192.	8.2	90
1176	Lifecycle-based feasibility indicators for floating solar photovoltaic plants along with implementable energy enhancement strategies and framework-driven assessment approaches leading to advancements in the simulation tool. Frontiers in Energy Research, 0, 11, .	1.2	5
1177	Definition of Scenarios for Modern Power Systems with a High Renewable Energy Share. Global Challenges, 2023, 7, .	1.8	3
1178	A strategic review: the role of commercially available tools for planning, modelling, optimization, and performance measurement of photovoltaic systems. Energy Harvesting and Systems, 2024, 11, .	1.7	2
1179	Energy System Low-Carbon Transition under Dual-Carbon Goals: The Case of Guangxi, China Using the EnergyPLAN Tool. Energies, 2023, 16, 3416.	1.6	2
1180	Solar Battery Charging Station for Electric Vehicles: Part I- Screening, Modeling, and Feasibility Analysis. , 2022, , .		0
1182	Expansion Planning Theory. Springer Theses, 2023, , 21-41.	0.0	ο
1182 1185	Expansion Planning Theory. Springer Theses, 2023, , 21-41. HRES Systems State of the Art: Topologies, Sizing Approaches, and Evaluation Criteria. , 2023, , .	0.0	0
		0.0	
1185	HRES Systems State of the Art: Topologies, Sizing Approaches, and Evaluation Criteria. , 2023, , . Towards Renewable Energy Systems: A Design Framework for a Low Grid-Dependent Residential	0.0	0
1185 1189	 HRES Systems State of the Art: Topologies, Sizing Approaches, and Evaluation Criteria. , 2023, , . Towards Renewable Energy Systems: A Design Framework for a Low Grid-Dependent Residential District. , 2023, , . Context Good Practices in Energy Matrix Focused Towards a Hydrogen Economy. Advances in Business 		0
1185 1189 1190	HRES Systems State of the Art: Topologies, Sizing Approaches, and Evaluation Criteria. , 2023, , . Towards Renewable Energy Systems: A Design Framework for a Low Grid-Dependent Residential District. , 2023, , . Context Good Practices in Energy Matrix Focused Towards a Hydrogen Economy. Advances in Business Strategy and Competitive Advantage Book Series, 2023, , 27-41.		0 1 0
1185 1189 1190 1194	HRES Systems State of the Art: Topologies, Sizing Approaches, and Evaluation Criteria. , 2023, , . Towards Renewable Energy Systems: A Design Framework for a Low Grid-Dependent Residential District. , 2023, , . Context Good Practices in Energy Matrix Focused Towards a Hydrogen Economy. Advances in Business Strategy and Competitive Advantage Book Series, 2023, , 27-41. Future Trends of Hybrid Energy Systems. , 2023, , .		0 1 0 0
1185 1189 1190 1194 1209	 HRES Systems State of the Art: Topologies, Sizing Approaches, and Evaluation Criteria. , 2023, , . Towards Renewable Energy Systems: A Design Framework for a Low Grid-Dependent Residential District. , 2023, , . Context Good Practices in Energy Matrix Focused Towards a Hydrogen Economy. Advances in Business Strategy and Competitive Advantage Book Series, 2023, , 27-41. Future Trends of Hybrid Energy Systems. , 2023, , . Workflow-Based Architecture for Optimal Planning of Integrated Local Multi-Energy Systems. , 2023, , . Co-simulation ofÂSocio-Technical Energy Systems: An Interdisciplinary Design Process. Springer 	0.2	0 1 0 0

			CITATION REPORT		
#	Article			IF	CITATIONS
1235	The Urban Territory Energy Balance Spatial Model Application for the Buildings Power Structure Selection Decisions Analysis. Lecture Notes in Networks and Systems, 2024,	Supply , , 317-330.		0.5	0
1238	Performance Evaluation and Assessment of 100 kW Grid-Tied SPV System in Subtropic Conditions. Lecture Notes in Electrical Engineering, 2024, , 345-356.	cal Climatic		0.3	0
1241	The EnergyPLAN energy system analysis model. , 2024, , 51-74.				0