

A review of solar photovoltaic levelized cost of electricity

Renewable and Sustainable Energy Reviews

15, 4470-4482

DOI: [10.1016/j.rser.2011.07.104](https://doi.org/10.1016/j.rser.2011.07.104)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Photodegradation in a stress and response framework: poly(methyl methacrylate) for solar mirrors and lens. Journal of Photonics for Energy, 2012, 2, 022004.	0.8	31
2	Prediction of energy effects on photovoltaic systems due to snowfall events. , 2012, , .		29
3	100% Renewables as a Focus for Environmental Education. Australian Journal of Environmental Education, 2012, 28, 125-155.	1.4	11
4	Concentrated solar thermoelectric generators. Energy and Environmental Science, 2012, 5, 9055.	15.6	227
5	Optimizing Energy Costs for Offices Connected to the Smart Grid. IEEE Transactions on Smart Grid, 2012, 3, 2273-2285.	6.2	58
6	All-Oxide Photovoltaics. Journal of Physical Chemistry Letters, 2012, 3, 3755-3764.	2.1	263
7	Improved parametric empirical determination of module short circuit current for modelling and optimization of solar photovoltaic systems. Solar Energy, 2012, 86, 2240-2254.	2.9	19
8	Silicon-based photovoltaic solar cells. , 2012, , 3-22e.		5
9	An optimal Renewable Portfolio Standard using Genetic Algorithm - Benders' decomposition method in a Least Cost Approach. , 2012, , .		0
10	Open-source development of solar photovoltaic technology. Energy for Sustainable Development, 2012, 16, 379-388.	2.0	49
11	Development of an integrated methodology for the energy needs of a major urban city: The case study of Athens, Greece. Renewable and Sustainable Energy Reviews, 2012, 16, 6705-6716.	8.2	16
12	Community-scale assessment of rooftop-mounted solar energy potential with meteorological, atlas, and GIS data: a case study of Guelph, Ontario (Canada). Energy, Sustainability and Society, 2012, 2, .	1.7	7
13	Limitations of Nuclear Power as a Sustainable Energy Source. Sustainability, 2012, 4, 1173-1187.	1.6	64
14	Technical and Financial Feasibility of a Stand-alone Photovoltaic System for Rural Electrification in the Andean South Region of Peru. Journal of Sustainable Development, 2012, 5, .	0.1	1
15	The Prospects for Cost Competitive Solar PV Power. SSRN Electronic Journal, 2012, , .	0.4	4
16	Photovoltaics literature survey (no. 91). Progress in Photovoltaics: Research and Applications, 2012, 20, 124-126.	4.4	0
17	Solar energy's path towards competitiveness. Nature Materials, 2012, 11, 173-173.	13.3	1
18	Financial analysis of the cultivation of poplar and willow for bioenergy. Biomass and Bioenergy, 2012, 43, 52-64.	2.9	73

#	ARTICLE	IF	CITATIONS
19	Environmental, technical and financial feasibility study of solar power plants by RETScreen, according to the targeting of energy subsidies in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2806-2811.	8.2	89
20	Effects on amorphous silicon photovoltaic performance from high-temperature annealing pulses in photovoltaic thermal hybrid devices. <i>Solar Energy Materials and Solar Cells</i> , 2012, 100, 199-203.	3.0	37
21	Optical efficiencyâ€“concentration ratio trade-off for a flat panel photovoltaic system with diffuser type concentrator. <i>Solar Energy Materials and Solar Cells</i> , 2012, 103, 35-40.	3.0	32
22	Inequality as an obstacle to sustainable electricity and transport energy use. <i>Energy for Sustainable Development</i> , 2013, 17, 315-325.	2.0	18
23	The Economics of Solar Electricity. <i>Annual Review of Resource Economics</i> , 2013, 5, 387-426.	1.5	121
24	Simple and low-cost method of planning for tree growth and lifetime effects on solar photovoltaic systems performance. <i>Solar Energy</i> , 2013, 95, 300-307.	2.9	16
25	A mixed-integer optimization model for electricity infrastructure development. <i>Energy Systems</i> , 2013, 4, 79-98.	1.8	16
26	Heuristic indicators for the design of community off-grid electrification systems based on multiple renewable energies. <i>Energy</i> , 2013, 50, 501-512.	4.5	26
27	Optimal sizing of distributed generation in micro-grid considering Energy Price Equilibrium point analysis model. , 2013, , .		2
28	Optimizing the Front Electrode of Silicon-Wafer-Based Solar Cells and Modules. <i>IEEE Journal of Photovoltaics</i> , 2013, 3, 716-722.	1.5	7
29	Utility-scale solar energy planning for Egypt. , 2013, , .		1
30	Cost of PV electricity â€“ Case study of Greece. <i>Solar Energy</i> , 2013, 91, 120-130.	2.9	37
31	The impact of city-level permitting processes on residential photovoltaic installation prices and development times: An empirical analysis of solar systems in California cities. <i>Energy Policy</i> , 2013, 63, 531-542.	4.2	45
32	Perovskites: The Emergence of a New Era for Low-Cost, High-Efficiency Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3623-3630.	2.1	2,483
33	Wiring-up Carbon Single Wall Nanotubes to Polycrystalline Inorganic Semiconductor Thin Films: Low-Barrier, Copper-Free Back Contact to CdTe Solar Cells. <i>Nano Letters</i> , 2013, 13, 5224-5232.	4.5	63
34	Issue on supply chain of renewable energy. <i>Energy Conversion and Management</i> , 2013, 76, 774-780.	4.4	88
35	Predicting the costs of photovoltaic solar modules in 2020 using experience curve models. <i>Energy</i> , 2013, 62, 341-348.	4.5	108
36	A review and probabilistic model of lifecycle costs of stationary batteries in multiple applications. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 240-250.	8.2	261

#	ARTICLE	IF	CITATIONS
37	Assessing the impact of multi-busbars on metallization cost and efficiency of solar cells with digital inkjet-printed gridlines. , 2013, , .		7
38	Photovoltaic system performance enhancement with non-tracking planar concentrators: Experimental results and BDRF based modelling. , 2013, , .		12
39	Coordination of EV fleet charging with distributed generation to reduce constraints on distribution networks. , 2013, , .		1
40	The impact of recycling policies on the photovoltaic Levelized Cost of the Electricity. , 2013, , .		10
41	The first installation under the Italian PV Rooftop Programme: A performance analysis referred to 11 years of operation. , 2013, , .		4
42	Solar photovoltaic water pumping for Multiple Use Systems (MUS) in Nepal. , 2013, , .		1
43	Evaluation of the energy yield prediction error depending on the methodology to estimate global tilted irradiance from measured global horizontal irradiance. , 2013, , .		1
44	Light-Trapping Properties of a Diffractive Honeycomb Structure in Silicon. IEEE Journal of Photovoltaics, 2013, 3, 709-715.	1.5	8
45	A comparison of the cost and financial returns for solar photovoltaic systems installed by businesses in different locations across the United States. Renewable Energy, 2013, 57, 137-143.	4.3	69
46	Design of solar cell materials via soft X-ray spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 2-11.	0.8	15
47	Can cities become self-reliant in energy? A technological scenario analysis for Cleveland, Ohio. Cities, 2013, 31, 404-411.	2.7	16
48	Multi-parameter analysis for the technical and economic assessment of photovoltaic systems in the main European Union countries. Energy Conversion and Management, 2013, 74, 117-128.	4.4	43
50	The effects of snowfall on solar photovoltaic performance. Solar Energy, 2013, 92, 84-97.	2.9	115
51	Systems for peaking power with 100% CO2 capture by integration of solid oxide fuel cells with compressed air energy storage. Journal of Power Sources, 2013, 228, 281-293.	4.0	23
52	Alternative pathways for providing access to electricity in developing countries. Renewable Energy, 2013, 57, 299-310.	4.3	76
53	Review of photovoltaic module energy yield ($k_{scp}W/h/k_{scp}W$): comparison of crystalline S_i and thin film technologies. Wiley Interdisciplinary Reviews: Energy and Environment, 2013, 2, 218-233.	1.9	22
54	The prospects for cost competitive solar PV power. Energy Policy, 2013, 55, 117-127.	4.2	199
55	Progress in solar PV technology: Research and achievement. Renewable and Sustainable Energy Reviews, 2013, 20, 443-461.	8.2	515

#	ARTICLE	IF	CITATIONS
56	Analytical model for solar PV and CSP electricity costs: Present LCOE values and their future evolution. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 20, 119-132.	8.2	353
57	Re-considering the economics of photovoltaic power. <i>Renewable Energy</i> , 2013, 53, 329-338.	4.3	372
58	Progress in Indium Gallium Nitride Materials for Solar Photovoltaic Energy Conversion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1947-1954.	1.1	86
59	Sterically demanded unsymmetrical zinc phthalocyanines for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2013, 98, 518-529.	2.0	40
60	A new method to determine the effects of hydrodynamic surface coatings on the snow shedding effectiveness of solar photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , 2013, 113, 71-78.	3.0	39
61	Dye Sensitized Solar Cells for Economically Viable Photovoltaic Systems. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1682-1693.	2.1	146
62	Economic impacts of installing solar power plants in northern Chile. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 489-498.	8.2	39
63	Non-vacuum processed next generation thin film photovoltaics: Towards marketable efficiency and production of CZTS based solar cells. <i>Solar Energy</i> , 2013, 94, 37-70.	2.9	125
64	Improved performance of hybrid photovoltaic-trigeneration systems over photovoltaic-cogen systems including effects of battery storage. <i>Energy</i> , 2013, 49, 366-374.	4.5	38
65	Comparison study between a Renewable Energy Supply System and a supergrid for achieving 100% from renewable energy sources in Islands. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 46, 198-210.	3.3	51
66	Techno-economic analysis of PEM fuel cells role in photovoltaic-based systems for the remote base stations. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 417-425.	3.8	75
67	Life cycle analysis of silane recycling in amorphous silicon-based solar photovoltaic manufacturing. <i>Resources, Conservation and Recycling</i> , 2013, 70, 44-49.	5.3	35
68	Economic assessment of large scale solar photovoltaic projects in the UAE. , 2013, , .		3
69	Evaluation of renewable energy development in power generation in Finland. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	13
70	The Viability of Nanotechnology-based InGaN Solar Photovoltaic Devices for Sustainable Energy Generation. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1558, 1.	0.1	1
71	Distributed Recycling of Post-Consumer Plastic Waste in Rural Areas. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1492, 91-96.	0.1	58
72	Grid Parity Analysis of PV Markets. <i>Advanced Materials Research</i> , 0, 827, 441-445.	0.3	1
73	Light trapping enhancement in ordered and disordered silicon nanowire based solar cells. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2

#	ARTICLE	IF	CITATIONS
74	Bridging the Fields of Solar Cell and Battery Research to Develop High-Performance Anodes for Photoelectrochemical Cells and Metal Ion Batteries. <i>Challenges</i> , 2013, 4, 116-135.	0.9	6
75	Optimal sizing of a stand-alone photovoltaic system. , 2013, , .		8
76	Planning of Flow of Material and Energy for Photovoltaics Industry. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 477-482.	0.4	0
78	Scaling of black silicon processing time by high repetition rate femtosecond lasers. <i>MATEC Web of Conferences</i> , 2013, 8, 02007.	0.1	0
79	Automated quantification of solar photovoltaic potential in cities. <i>International Review for Spatial Planning and Sustainable Development</i> , 2013, 1, 49-60.	0.6	18
80	WACC the Dog: The Effect of Financing Costs on the Levelized Cost of Solar PV Power. <i>SSRN Electronic Journal</i> , 2013, , .	0.4	4
81	Are We There Yet? Improving Solar PV Economics and Power Planning in Developing Countries: The Case of Kenya. <i>SSRN Electronic Journal</i> , 2013, , .	0.4	0
82	On the Choice of the Discount Rate and the Role of Financial Variables and Physical Parameters in Estimating the Levelized Cost of Energy. <i>International Journal of Financial Studies</i> , 2013, 1, 54-61.	1.1	15
83	Computer-Aided Modelling and Analysis of PV Systems: A Comparative Study. <i>Scientific World Journal</i> , The, 2014, 2014, 1-17.	0.8	7
85	Autonomous cooperative energy trading between prosumers for microgrid systems. , 2014, , .		53
86	Post Feed-in Scheme Photovoltaic System Feasibility Evaluation in Italy: Sicilian Case Studies. <i>Energies</i> , 2014, 7, 7147-7165.	1.6	36
87	Simplified levelised cost of the domestic photovoltaic energy in the UK: the importance of the feed-in tariff scheme. <i>IET Renewable Power Generation</i> , 2014, 8, 451-458.	1.7	27
88	Multi-resonant silver nano-disk patterned thin film hydrogenated amorphous silicon solar cells for Staebler-Wronski effect compensation. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	34
89	Recovering valuable metals from recycled photovoltaic modules. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 797-807.	0.9	88
90	Feasibility of Antireflection and Passivation Coatings by Atmospheric Pressure PECVD. <i>Energy Procedia</i> , 2014, 55, 741-749.	1.8	4
91	The economy of distributed PV in China. <i>Energy</i> , 2014, 78, 939-949.	4.5	70
92	In-situ spectroscopic ellipsometry of microcrystalline silicon deposited by plasma-enhanced chemical vapor deposition on flexible Fe-Ni alloy substrate for photovoltaic applications. <i>Thin Solid Films</i> , 2014, 571, 749-755.	0.8	7
93	Can solar panels leapfrog power grids? The World Bank experience 1992-2009. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 811-820.	8.2	20

#	ARTICLE	IF	CITATIONS
94	Crystalline composition of silicon deposited on a low-cost substrate for photovoltaic applications studied by in-situ spectroscopic ellipsometry. , 2014, , .		0
95	Economics of a small-scale, grid-connected PV system in Western Romania: An LCoE analysis. , 2014, , .		4
96	The Benefits of Sharingâ€”Nice Guys and Girls do Finish First. , 2014, , 13-35.		3
97	Grid parity and self-consumption with photovoltaic systems under the present regulatory framework in Spain: The case of the University of JaÃ©n Campus. Renewable and Sustainable Energy Reviews, 2014, 33, 752-771.	8.2	44
98	Effects of spectral albedo on solar photovoltaic devices. Solar Energy Materials and Solar Cells, 2014, 124, 111-116.	3.0	99
99	Impact of individual atmospheric parameters on CPV system power, energy yield and cost of energy. Progress in Photovoltaics: Research and Applications, 2014, 22, 1080-1095.	4.4	65
100	Optimizing limited solar roof access by exergy analysis of solar thermal, photovoltaic, and hybrid photovoltaic thermal systems. Applied Energy, 2014, 120, 115-124.	5.1	94
101	Material and manufacturing cost considerations for thermoelectrics. Renewable and Sustainable Energy Reviews, 2014, 32, 313-327.	8.2	386
102	Vergleichende Analyse der technisch-wirtschaftlichen Bedingungen von PV-Anlagen Mit SÃ¼d- und Ost-West-Ausrichtung. Zeitschrift FÃ¼r Energiewirtschaft, 2014, 38, 27-36.	0.2	4
103	The effects of dispatch strategy on electrical performance of amorphous silicon-based solar photovoltaic-thermal systems. Renewable Energy, 2014, 68, 459-465.	4.3	10
104	Feasibility study and economic analysis of pumped hydro storage and battery storage for a renewable energy powered island. Energy Conversion and Management, 2014, 79, 387-397.	4.4	270
105	A review of soft computing methods for harmonics elimination PWM for inverters in renewable energy conversion systems. Renewable and Sustainable Energy Reviews, 2014, 33, 141-153.	8.2	89
106	Silver supply risk analysis for the solar sector. Renewable Energy, 2014, 69, 157-165.	4.3	42
107	Recent progress in renewable energy â€” Remedy of energy crisis in Pakistan. Renewable and Sustainable Energy Reviews, 2014, 33, 236-253.	8.2	147
108	A â€œMoore's Lawâ€”like approach to roadmapping photovoltaic technologies. Renewable and Sustainable Energy Reviews, 2014, 29, 883-890.	8.2	13
109	Reviewing electricity production cost assessments. Renewable and Sustainable Energy Reviews, 2014, 30, 170-183.	8.2	83
110	Securitization of residential solar photovoltaic assets: Costs, risks and uncertainty. Energy Policy, 2014, 67, 488-498.	4.2	57
111	Are we there yet? Improving solar PV economics and power planning in developing countries: The case of Kenya. Renewable and Sustainable Energy Reviews, 2014, 30, 604-615.	8.2	71

#	ARTICLE	IF	CITATIONS
112	Molecular artificial photosynthesis. <i>Chemical Society Reviews</i> , 2014, 43, 7501-7519.	18.7	769
113	Improved Morphology Control Using a Modified Two-Step Method for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18751-18757.	4.0	62
114	Using the sun to decarbonize the power sector: The economic potential of photovoltaics and concentrating solar power. <i>Applied Energy</i> , 2014, 135, 704-720.	5.1	144
115	Techno-economic parametric assessment of solar power in India: A survey. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 326-334.	8.2	41
116	Economic and policy analysis for solar PV systems in Indiana. <i>Energy Policy</i> , 2014, 74, 123-133.	4.2	33
117	Photovoltaic powered ultraviolet and visible light-emitting diodes for sustainable point-of-use disinfection of drinking waters. <i>Science of the Total Environment</i> , 2014, 493, 185-196.	3.9	71
118	The prospect of high temperature solid state energy conversion to reduce the cost of concentrated solar power. <i>Energy and Environmental Science</i> , 2014, 7, 1819-1828.	15.6	39
119	Regional coordination of European environmental policies. <i>Journal of Policy Modeling</i> , 2014, 36, 1152-1165.	1.7	2
120	Plasmonic nanostructures for light trapping in organic photovoltaic devices. <i>Nanoscale</i> , 2014, 6, 8444.	2.8	150
121	CZTS-based materials and interfaces and their effects on the performance of thin film solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 08, 735-762.	1.2	131
122	Evaluating solar energy profitability: A focus on the role of self-consumption. <i>Energy Conversion and Management</i> , 2014, 88, 317-331.	4.4	76
123	Role of structural order at the P3HT/C60 heterojunction interface. <i>Organic Electronics</i> , 2014, 15, 2091-2098.	1.4	5
124	Cost and CO ₂ reductions of solar photovoltaic power generation in China: Perspectives for 2020. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 370-380.	8.2	93
125	Simulations of greenhouse gas emission reductions from low-cost hybrid solar photovoltaic and cogeneration systems for new communities. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 8, 34-41.	1.7	34
126	Optimal distributed generation planning at a local level – A review of Serbian renewable energy development. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 79-86.	8.2	38
127	Renewable energy resources: Current status, future prospects and their enabling technology. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 748-764.	8.2	2,024
128	The economic viability of battery storage for residential solar photovoltaic systems – A review and a simulation model. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1101-1118.	8.2	410
130	<i>Energy Technologies and Economics</i> , 2014, , .		23

#	ARTICLE	IF	CITATIONS
131	Levelized cost of electricity (LCOE) of renewable energies and required subsidies in China. <i>Energy Policy</i> , 2014, 70, 64-73.	4.2	236
132	Markovian Reliability Analysis of Standalone Photovoltaic Systems Incorporating Repairs. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 414-422.	1.5	52
133	Potential and economic viability of standalone hybrid systems for a rural community of Sokoto, North-west Nigeria. <i>Frontiers in Energy</i> , 2014, 8, 145-159.	1.2	19
134	An assessment of unforeseen losses resulting from inappropriate use of solar home systems in South Africa. <i>Applied Energy</i> , 2014, 136, 336-346.	5.1	36
135	Key developments in CIGS thin film solar cells on ceramic substrates. <i>Crystal Research and Technology</i> , 2014, 49, 620-627.	0.6	7
136	Life cycle cost analysis of wind power considering stochastic uncertainties. <i>Energy</i> , 2014, 75, 411-418.	4.5	9
137	Assessing application potential of clean energy supply for greenhouse gas emission mitigation: a case study on General Motors global manufacturing. <i>Journal of Cleaner Production</i> , 2014, 75, 11-19.	4.6	23
138	Which are the constraints to the photovoltaic grid-parity in the main European markets?. <i>Solar Energy</i> , 2014, 105, 390-400.	2.9	47
139	Coal-fuelled systems for peaking power with 100% CO ₂ capture through integration of solid oxide fuel cells with compressed air energy storage. <i>Journal of Power Sources</i> , 2014, 251, 92-107.	4.0	35
140	Simulation and analysis of a solar assisted heat pump system with two different storage types for high levels of PV electricity self-consumption. <i>Solar Energy</i> , 2014, 103, 19-27.	2.9	86
141	Reallocating risks and returns to scale up adoption of distributed electricity resources. <i>Energy Policy</i> , 2014, 69, 566-574.	4.2	3
142	Exergoeconomic analysis of high concentration photovoltaic thermal co-generation system for space cooling. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 34, 8-19.	8.2	33
143	Technical and economic design of photovoltaic and battery energy storage system. <i>Energy Conversion and Management</i> , 2014, 86, 81-92.	4.4	227
144	Effects of Exciton Polarity in Charge-Transfer Polymer/PCBM Bulk Heterojunction Films. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1856-1863.	2.1	33
145	Sustainable energy systems in an imaginary island. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 229-242.	8.2	20
146	The thin film flexible floating PV (T3F-PV) array: The concept and development of the prototype. <i>Renewable Energy</i> , 2014, 71, 43-50.	4.3	67
147	Exploring bioenergy potentials of built-up areas based on NEG-EROEI indicators. <i>Ecological Indicators</i> , 2014, 47, 67-79.	2.6	29
148	The potentials of a reverse auction in allocating subsidies for cost-effective roof-top photovoltaic system deployment. <i>Energy Policy</i> , 2014, 69, 555-565.	4.2	37

#	ARTICLE	IF	CITATIONS
150	No Sun: Three Sunlight-Killing Scenarios. , 2015, , 17-24.		2
151	Practical Matters: Energy, Water, Nutrition, Taste, Biodiversity, & Cooperation. , 2015, , 87-102.		0
152	Sizing of a stand-alone photovoltaic system at minimum cost for GCOE, Amravati. , 2015, , .		1
153	Investor-Specific Cost of Capital and Renewable Energy Investment Decisions. , 2015, , 77-101.		10
155	Preparation of meta-stable phases of barium titanate by Sol-hydrothermal method. AIP Advances, 2015, 5, .	0.6	30
156	Hybrid photovoltaic-thermoelectric system for concentrated solar energy conversion: Experimental realization and modeling. Journal of Applied Physics, 2015, 118, .	1.1	121
157	Process intensification and integration of solar heat generation in the Chinese condiment sector â€œ A case study of a medium sized Beijing based factory. Energy Conversion and Management, 2015, 106, 1295-1308.	4.4	21
158	Distributed manufacturing with 3-D printing: a case study of recreational vehicle solar photovoltaic mounting systems. Journal of Frugal Innovation, 2015, 1, .	6.0	40
159	Evaluaci3n de la contribuci3n de los bonos de carbono a la competitividad de las centrales solares de concentraci3n en Chile. Ingeniare, 2015, 23, 609-621.	0.1	3
160	Energy Security, Uncertainty, and Energy Resource Use Option in Ethiopia: A Sector Modelling Approach. SSRN Electronic Journal, 0, , .	0.4	3
161	Prospects of Renewable Energy at Rural Areas in Bangladesh: Policy Analysis. Journal of Environmental Science and Natural Resources, 2015, 8, 105-113.	0.1	3
162	Frameworks for Understanding and Promoting Solar Energy Technology Development. Resources, 2015, 4, 55-69.	1.6	5
163	Alternative Renewable Energy Production Technologies. , 2015, , 31-64.		0
164	Lifeâ€œcycle loss evaluation of power transformers serving large photovoltaic plants in vertically integrated and decentralised systems. IET Generation, Transmission and Distribution, 2015, 9, 759-766.	1.4	4
165	Fast and Nondestructive Detection on the EVA Gel Content in Photovoltaic Modules by Optical Reflection. IEEE Journal of Photovoltaics, 2015, 5, 759-765.	1.5	8
166	Analysis of the optimal combination of renewable energies for an enterprise. , 2015, , .		0
167	Profitability measures and cost minimization in electricity generation investments. , 2015, , .		4
168	Endogenous Assessment of the Capacity Value of Solar PV in Generation Investment Planning Studies. IEEE Transactions on Sustainable Energy, 2015, 6, 1574-1585.	5.9	57

#	ARTICLE	IF	CITATIONS
169	Photovoltaic System Performance Enhancement With Nontracking Planar Concentrators: Experimental Results and Bidirectional Reflectance Function (BDRF)-Based Modeling. IEEE Journal of Photovoltaics, 2015, 5, 1626-1635.	1.5	20
170	Rescaling and Reordering Nature's Society Relations: The Nam Theun 2 Hydropower Dam and Laos's Thailand Electricity Networks. Annals of the American Association of Geographers, 2015, 105, 1221-1239.	3.0	38
171	Financial analysis of photovoltaic configurations for Colombian households. IEEE Latin America Transactions, 2015, 13, 3832-3837.	1.2	8
172	Bi-level optimization of electricity tariffs and PV distributed generation investments. , 2015, , .		4
173	Photovoltaics towards terawatts - progress in photovoltaic cells and modules. IET Power Electronics, 2015, 8, 2343-2351.	1.5	14
174	Graphene oxide doped single-walled carbon nanotube thin film as back electrode for CdTe solar cell. , 2015, , .		1
175	Learning curve analysis of concentrated photovoltaic systems. Progress in Photovoltaics: Research and Applications, 2015, 23, 1678-1686.	4.4	71
176	Solar driven cooling systems: An updated review. Renewable and Sustainable Energy Reviews, 2015, 44, 159-181.	8.2	191
177	Exploring the impact of permitting and local regulatory processes on residential solar prices in the United States. Energy Policy, 2015, 78, 102-112.	4.2	34
178	Control strategies and cycling demands for Li-ion storage batteries in residential micro-cogeneration systems. Applied Energy, 2015, 141, 32-41.	5.1	32
179	Incentives for rural off grid electrification in Burkina Faso using LCOE. Renewable Energy, 2015, 78, 573-582.	4.3	58
180	Optimal design of photovoltaic energy collectors with mutual shading for pre-existing building roofs. Renewable Energy, 2015, 78, 666-678.	4.3	20
181	Renewable energy technology diffusion: an analysis of photovoltaic-system support schemes in Medellín, Colombia. Journal of Cleaner Production, 2015, 92, 152-161.	4.6	79
182	Solar regime and LVOE of PV embedded generation systems in Nigeria. Renewable Energy, 2015, 78, 226-235.	4.3	24
183	Solar Grid Parity dynamics in Italy: A real option approach. Energy, 2015, 80, 293-302.	4.5	69
184	Residential photovoltaic plant: environmental and economical implications from renewable support policies. Clean Technologies and Environmental Policy, 2015, 17, 1929-1944.	2.1	18
185	Economics of pooling small local electricity prosumers' LCOE & self-consumption. Renewable and Sustainable Energy Reviews, 2015, 51, 718-729.	8.2	69
186	Life cycle economic and environmental assessment for establishing the optimal implementation strategy of rooftop photovoltaic system in military facility. Journal of Cleaner Production, 2015, 104, 315-327.	4.6	33

#	ARTICLE	IF	CITATIONS
187	Energy production from PV and carbon reduction in great lakes region of Masuria Poland: A case study of water park in Elk. <i>Renewable Energy</i> , 2015, 83, 1315-1325.	4.3	6
188	Total U.S. cost evaluation of low-weight tension-based photovoltaic flat-roof mounted racking. <i>Solar Energy</i> , 2015, 117, 89-98.	2.9	23
189	Performance of U.S. hybrid distributed energy systems: Solar photovoltaic, battery and combined heat and power. <i>Energy Conversion and Management</i> , 2015, 105, 71-80.	4.4	75
190	Geothermal barriers, policies and economics in Chile – Lessons for the Andes. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1390-1401.	8.2	70
191	Limitations of ultra-thin transparent conducting oxides for integration into plasmonic-enhanced thin-film solar photovoltaic devices. <i>Materials for Renewable and Sustainable Energy</i> , 2015, 4, 1.	1.5	17
192	Effect of Cooling Press on the Optical Transmission Through Photovoltaic Encapsulants. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 416-424.	1.9	4
193	Peanut shaped ZnO microstructures: controlled synthesis and nucleation growth toward low-cost dye sensitized solar cells. <i>Materials Research Express</i> , 2015, 2, 066202.	0.8	23
194	The Economics of Wind Power in China and Policy Implications. <i>Energies</i> , 2015, 8, 1529-1546.	1.6	47
195	Cost-effectiveness analysis of battery energy storage in distribution systems embedded with plug-in electric vehicles. , 2015, , .		2
196	High temperature solar thermoelectric generator – Indoor characterization method and modeling. <i>Energy</i> , 2015, 84, 485-492.	4.5	43
197	Levelised cost of electricity in high concentrated photovoltaic grid connected systems: Spatial analysis of Spain. <i>Applied Energy</i> , 2015, 151, 49-59.	5.1	82
198	Outlook and challenges for promoting solar photovoltaic rooftops in Thailand. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 48, 356-372.	8.2	47
199	Fire in the woods or fire in the boiler: Implementing rural district heating to reduce wildfire risks in the forest–urban interface. <i>Chemical Engineering Research and Design</i> , 2015, 96, 1-13.	2.7	16
200	Device interactions in reducing the cost of tidal stream energy. <i>Energy Conversion and Management</i> , 2015, 97, 428-438.	4.4	31
201	Analyzing the impact of cost-containment mechanisms on the profitability of solar PV plants in Spain. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 46, 166-177.	8.2	43
202	Direct observation of an inhomogeneous chlorine distribution in $\text{CH}_3\text{NH}_3\text{PbI}_3\text{Cl}_x$ layers: surface depletion and interface enrichment. <i>Energy and Environmental Science</i> , 2015, 8, 1609-1615.	15.6	97
203	Uncertainty-Based Design of a Bilayer Distribution System for Improved Integration of PHEVs and PV Arrays. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 659-674.	5.9	31
204	Enhanced absorption of thin-film photovoltaic cells using an optical cavity. <i>Journal of Optics (United Kingdom)</i> 17, 10, 107001 (2015). doi:10.1088/1751-8751/17/10/107001	1.0	23

#	ARTICLE	IF	CITATIONS
205	Evaluation of photovoltaic integration potential in a village. <i>Solar Energy</i> , 2015, 121, 152-168.	2.9	60
206	Tracking US photovoltaic system prices 1998-2012: a rapidly changing market. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 692-704.	4.4	33
207	Sustainability assessment of electro dialysis powered by photovoltaic solar energy for freshwater production. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 604-615.	8.2	63
208	The cost-effectiveness of household photovoltaic systems in reducing greenhouse gas emissions in Australia: Linking subsidies with emission reductions. <i>Applied Energy</i> , 2015, 148, 439-448.	5.1	46
209	Comparison of large scale solar PV (photovoltaic) and nuclear power plant investments in an emerging market. <i>Energy</i> , 2015, 84, 656-665.	4.5	36
210	Revenue prospects of photovoltaic in Germany – Influence opportunities by variation of the plant orientation. <i>Energy Policy</i> , 2015, 81, 86-97.	4.2	14
211	Performance analysis of two 3.5 kWp CPV systems under real operating conditions. <i>Applied Energy</i> , 2015, 160, 687-696.	5.1	34
212	Improving the concentration ratio of parabolic troughs using a second-stage flat mirror. <i>Applied Energy</i> , 2015, 159, 620-632.	5.1	75
213	Impact of Snow and Ground Interference on Photovoltaic Electric System Performance. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 1680-1685.	1.5	86
214	Prospects and Analysis of Hydrogen Production from Renewable Electricity Sources in Algeria. , 2015, , 583-602.		4
215	Concentrating Solar Power. <i>Chemical Reviews</i> , 2015, 115, 12797-12838.	23.0	438
216	Preparation of dye-sensitized solar cells with high photocurrent and photovoltage by using mesoporous titanium dioxide particles as photoanode material. <i>Nano Research</i> , 2015, 8, 3830-3841.	5.8	20
217	Intrinsic Thermal Instability of Methylammonium Lead Trihalide Perovskite. <i>Advanced Energy Materials</i> , 2015, 5, 1500477.	10.2	1,788
218	The impact of residential photovoltaic power on electricity sales revenues in Cape Town, South Africa. <i>Utilities Policy</i> , 2015, 36, 10-23.	2.1	24
219	Reviewing the potential and cost-effectiveness of off-grid PV systems in Indonesia on a provincial level. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 757-769.	8.2	43
220	Analysis of Present and Future Financial Viability of High-Concentrating Photovoltaic Projects. <i>Green Energy and Technology</i> , 2015, , 377-400.	0.4	5
222	Pyramidal texturing of silicon surface via inorganic-organic hybrid alkaline liquor for heterojunction solar cells. <i>Journal of Power Sources</i> , 2015, 293, 698-705.	4.0	17
223	The recent change in the Italian policies for photovoltaics: Effects on the payback period and levelized cost of electricity of grid-connected photovoltaic systems installed in urban contexts. <i>Energy</i> , 2015, 93, 1989-2005.	4.5	48

#	ARTICLE	IF	CITATIONS
224	Solar photovoltaic powered on-site ammonia production for nitrogen fertilization. <i>Solar Energy</i> , 2015, 122, 562-568.	2.9	32
225	Dynamic Real-Time <i>i</i> â€“V</i> Curve Measurement System for Indoor/Outdoor Characterization of Photovoltaic Cells and Modules. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 337-343.	1.5	18
226	An exergy-based approach to the joint economic and environmental impact assessment of possible photovoltaic scenarios: A case study at a regional level in Italy. <i>Ecological Modelling</i> , 2015, 318, 64-74.	1.2	15
227	Photovoltaics energy: Improved modeling and analysis of the levelized cost of energy (LCOE) and grid parity â€“ Egypt case study. <i>Sustainable Energy Technologies and Assessments</i> , 2015, 9, 37-48.	1.7	59
228	Levelised cost of electricity for organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2015, 133, 26-31.	3.0	63
229	Evaluation of the Levelized Cost of Energy Method for Analyzing Renewable Energy Systems: A Case Study of System Equivalency Crossover Points Under Varying Analysis Assumptions. <i>IEEE Systems Journal</i> , 2015, 9, 199-208.	2.9	28
230	WACC the dog: The effect of financing costs on the levelized cost of solar PV power. <i>Renewable Energy</i> , 2015, 75, 888-898.	4.3	165
231	Don't just follow the sun â€“ A global assessment of economic performance for residential building photovoltaics. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 932-951.	8.2	83
232	Economic analysis of the contribution of photovoltaics to the decarbonization of the power sector. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 1288-1297.	8.2	21
233	Potential residential PV development in Chile: The effect of Net Metering and Net Billing schemes for grid-connected PV systems. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 1037-1051.	8.2	93
234	A multiple objective decision making model for energy generation portfolio under fuzzy uncertainty: Case study of large scale investor-owned utilities in Florida. <i>Renewable Energy</i> , 2015, 75, 224-242.	4.3	25
235	Government R&D Investment Decision-Making in the Energy Sector: LCOE Foresight Model Reveals What Regression Analysis Cannot. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
236	On the Design of Distributed Generation Policies: Are Common Net Metering Policies Optimal?. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
237	Optimal Policies to Promote Efficient Distributed Generation of Electricity. <i>SSRN Electronic Journal</i> , 2016, , .	0.4	3
239	Silicon Micro/Nanowire Solar Cells. <i>Semiconductors and Semimetals</i> , 2016, 94, 185-225.	0.4	5
240	An Assessment of Grid-Charged Inverter-Battery Systems for Domestic Applications in Ghana. <i>Journal of Solar Energy</i> , 2016, 2016, 1-11.	0.8	3
241	Influence of Oxygen Concentration on the Performance of Ultra-Thin RF Magnetron Sputter Deposited Indium Tin Oxide Films as a Top Electrode for Photovoltaic Devices. <i>Materials</i> , 2016, 9, 63.	1.3	44
243	Technical, Economical and Social Assessment of Photovoltaics in the Frame of the Net-Metering Law for the Province of Salta, Argentina. <i>Energies</i> , 2016, 9, 133.	1.6	14

#	ARTICLE	IF	CITATIONS
244	Electricity Self-Sufficient Community Clustering for Energy Resilience. <i>Energies</i> , 2016, 9, 543.	1.6	12
245	Design of a System Substituting Today's Inherent Inertia in the European Continental Synchronous Area. <i>Energies</i> , 2016, 9, 582.	1.6	46
246	Analysis of Photovoltaic Self-Consumption Systems. <i>Energies</i> , 2016, 9, 681.	1.6	17
247	The Recent Change in the Italian Policies for Photovoltaics: Effects on the Energy Demand Coverage of Grid-Connected PV Systems Installed in Urban Contexts. <i>Energies</i> , 2016, 9, 944.	1.6	42
248	Critical Factors Influencing Viability of Wave Energy Converters in Off-Grid Luxury Resorts and Small Utilities. <i>Sustainability</i> , 2016, 8, 1274.	1.6	27
249	On the Role of Maximum Demand Charges in the Presence of Distributed Generation Resources. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
250	Accelerated Thermal-Aging-Induced Degradation of Organometal Triiodide Perovskite on ZnO Nanostructures and Its Effect on Hybrid Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18309-18320.	4.0	24
251	Cost-Benefit Analysis of Renewable Installation in Inter-Intelligent Renewable Energy Network. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2016, 194, 42-52.	0.2	1
252	Bringing the social costs and benefits of electric energy from photovoltaics versus fossil fuels to light. <i>MRS Energy & Sustainability</i> , 2016, 3, 1.	1.3	2
253	Techno-Economic Study of Installing 10 MW PV Power Plant in Sudan. , 2016, , .		2
254	Sustainable power supply options for large islands – A case study for Belitung Island. , 2016, , .		2
255	Concentrator photovoltaic module architectures with capabilities for capture and conversion of full global solar radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8210-E8218.	3.3	48
256	Research on economy and technology feasibility for centralized solar power development in Qinghai-Tibet Plateau. , 2016, , .		1
257	Optimisation of mCCHP-PV-battery system. , 2016, , .		0
258	Introducing a new perspective for the economic evaluation of industrial energy efficiency technologies: An empirical analysis in Italy. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 15, 1-10.	1.7	29
259	Emerging economic viability of grid defection in a northern climate using solar hybrid systems. <i>Energy Policy</i> , 2016, 95, 378-389.	4.2	39
260	Optical Modeling of Microcrystalline Silicon Deposited by Plasma-Enhanced Chemical Vapor Deposition on Low-Cost Iron-Nickel Substrates for Photovoltaic Applications. , 2016, 12, 130-135.		6
261	Quantitative analysis of the levelized cost of electricity of commercial scale photovoltaics systems in the US. <i>Solar Energy Materials and Solar Cells</i> , 2016, 154, 71-77.	3.0	46

#	ARTICLE	IF	CITATIONS
262	Moving beyond LCOE: impact of various financing methods on PV profitability for SIDS. Energy Policy, 2016, 98, 749-758.	4.2	61
263	Techno-economic performance of concentrating solar power plants under the climatic conditions of the southern region of Tunisia. Energy Conversion and Management, 2016, 119, 203-214.	4.4	60
264	Optimal operation of a multi-source microgrid to achieve cost and emission targets. , 2016, , .		9
265	Economics of Solar Photovoltaic Generation. Green Energy and Technology, 2016, , 71-159.	0.4	2
266	Solar energy market developments in India. Renewable and Sustainable Energy Reviews, 2016, 62, 121-133.	8.2	95
267	Investigating the impact of weather variables on the energy yield and cost of energy of grid-connected solar concentrator systems. Energy, 2016, 106, 790-801.	4.5	32
268	Climate impacts on the cost of solar energy. Energy Policy, 2016, 94, 264-273.	4.2	33
269	Capital costs in tidal stream energy projects – A spatial approach. Energy, 2016, 107, 215-226.	4.5	38
270	Five-years-long effects of the Italian policies for photovoltaics on the energy demand coverage of grid-connected PV systems installed in urban contexts. Energy, 2016, 113, 444-460.	4.5	15
271	A transmissive, spectrum-splitting concentrating photovoltaic module for hybrid photovoltaic-solar thermal energy conversion. Solar Energy, 2016, 137, 585-593.	2.9	45
272	The effect of solar PV module price and capital cost on the levelized electricity cost of the solar PV power plant in the context of India. , 2016, , .		9
273	Performance analysis of 1MW grid connected photovoltaic power plant in Jaipur, India. , 2016, , .		9
274	A worldwide assessment of levelised cost of electricity of HCPV systems. Energy Conversion and Management, 2016, 127, 679-692.	4.4	45
275	Electrodeposition and Characterization of p and n Sulfide Semiconductors Composite Thin Film. Journal of the Electrochemical Society, 2016, 163, D3034-D3039.	1.3	5
276	Energy in Transition. , 2016, , 3-23.		0
277	Probabilistic life-cycle cost analysis for renewable and non-renewable power plants. Energy, 2016, 112, 774-787.	4.5	38
278	Evolution of the cost and economic profitability of grid-connected PV investments in Spain: Long-term review according to the different regulatory frameworks approved. Renewable and Sustainable Energy Reviews, 2016, 66, 233-247.	8.2	48
279	Grid-connected PV systems installed on institutional buildings: Technology comparison, energy analysis and economic performance. Energy and Buildings, 2016, 130, 188-201.	3.1	105

#	ARTICLE	IF	CITATIONS
280	Economic feasibility of campus-wide photovoltaic systems in New England. Renewable Energy, 2016, 99, 452-464.	4.3	55
281	Understanding grid parity. , 2016, , .		3
282	Scenarios of Solar Energy Use on the "Roof of the World": Potentials and Environmental Benefits. Mountain Research and Development, 2016, 36, 256-266.	0.4	6
283	Economic assessment of a-Si and CIS thin film solar PV technologies in Ghana. Sustainable Energy Technologies and Assessments, 2016, 18, 164-174.	1.7	9
284	Use of satellite solar data for assessment of performance of photovoltaic systems installed in different regions of Albania. AIP Conference Proceedings, 2016, , .	0.3	1
285	Feed-In Tariff for Onshore Wind Power in China. Emerging Markets Finance and Trade, 2016, 52, 1427-1437.	1.7	16
286	Retraining investment for U.S. transition from coal to solar photovoltaic employment. Energy Economics, 2016, 57, 295-302.	5.6	46
287	A review of technical requirements for plug-and-play solar photovoltaic microinverter systems in the United States. Solar Energy, 2016, 135, 455-470.	2.9	27
288	Sustainable domestic lighting options for poor people"an empirical study. Environment, Development and Sustainability, 2016, 18, 1559-1573.	2.7	4
289	Photovoltaic Technologies. Green Energy and Technology, 2016, , 7-36.	0.4	0
290	A critical review of electric vehicle charging using solar photovoltaic. International Journal of Energy Research, 2016, 40, 439-461.	2.2	83
291	Photovoltaic energy competitiveness and risk assessment for the South African residential sector. Progress in Photovoltaics: Research and Applications, 2016, 24, 1577-1591.	4.4	7
292	Parabolic Trough Collector Performance in a Hot Climate. Journal of Energy Engineering - ASCE, 2016, 142, .	1.0	8
293	Renewable and sustainable energy reviews solar photovoltaic energy progress in India: A review. Renewable and Sustainable Energy Reviews, 2016, 59, 927-939.	8.2	205
294	Levelized cost of electricity for solar photovoltaic, battery and cogen hybrid systems. Renewable and Sustainable Energy Reviews, 2016, 57, 692-703.	8.2	110
295	A review on modeling, design methodology and size optimization of photovoltaic based water pumping, standalone and grid connected system. Renewable and Sustainable Energy Reviews, 2016, 57, 1506-1519.	8.2	140
296	Energy"exergy and economic analyses of a hybrid solar"hydrogen renewable energy system in Ankara, Turkey. Applied Thermal Engineering, 2016, 99, 169-178.	3.0	59
297	Achieving annual and monthly net-zero energy of existing building in hot climate. Applied Energy, 2016, 165, 511-521.	5.1	90

#	ARTICLE	IF	CITATIONS
298	Electric vehicles charging using photovoltaic: Status and technological review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 34-47.	8.2	189
299	Field performance and degradation rates of different types of photovoltaic modules: A case study in Thailand. <i>Renewable Energy</i> , 2016, 89, 12-17.	4.3	53
300	A review of greenhouse gas emission liabilities as the value of renewable energy for mitigating lawsuits for climate change related damages. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 899-908.	8.2	93
301	The U.S. investment tax credit for solar energy: Alternatives to the anticipated 2017 step-down. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 591-602.	8.2	50
302	An adequate required rate of return for grid-connected PV systems. <i>Solar Energy</i> , 2016, 132, 73-83.	2.9	13
303	Smart distribution grid multistage expansion planning under load forecasting uncertainty. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 1136-1144.	1.4	30
304	Improvement of system code importing evaluation of Life Cycle Analysis of tokamak fusion power reactors. <i>Fusion Engineering and Design</i> , 2016, 109-111, 760-763.	1.0	3
305	Grid parity in tidal stream energy projects: An assessment of financial, technological and economic LCOE input parameters. <i>Technological Forecasting and Social Change</i> , 2016, 104, 89-101.	6.2	22
306	De-risking investment into concentrated solar power in North Africa: Impacts on the costs of electricity generation. <i>Renewable Energy</i> , 2016, 92, 262-272.	4.3	46
307	Integration of 750 MW renewable solar power to national grid of Pakistan – An economic and technical perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 1209-1219.	8.2	14
308	Optics for concentrating photovoltaics: Trends, limits and opportunities for materials and design. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 394-407.	8.2	220
309	Cost optimization of thermoelectric materials for power generation: The case for ZT at (almost) any cost. <i>Scripta Materialia</i> , 2016, 111, 16-22.	2.6	30
310	Recent advances in the photovoltaic applications of coordination polymers and metal organic frameworks. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3991-4002.	5.2	121
311	Economic feasibility analysis of small scale PV systems in different countries. <i>Solar Energy</i> , 2016, 131, 81-95.	2.9	142
312	Zero energy level and economic potential of small-scale building-integrated PV with different heating systems in Nordic conditions. <i>Applied Energy</i> , 2016, 167, 255-269.	5.1	53
313	Cost-effective policies for reaching India's 2022 renewable targets. <i>Renewable Energy</i> , 2016, 93, 255-268.	4.3	30
314	Is rooftop solar PV at socket parity without subsidies?. <i>Energy Policy</i> , 2016, 89, 84-94.	4.2	58
315	Solar photovoltaic system design optimization by shading analysis to maximize energy generation from limited urban area. <i>Energy Conversion and Management</i> , 2016, 115, 244-252.	4.4	36

#	ARTICLE	IF	CITATIONS
316	Potential of concentrating solar power (CSP) technology in Tunisia and the possibility of interconnection with Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 1227-1248.	8.2	83
317	A study of existing solar power policy framework in India for viability of the solar projects perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 510-518.	8.2	51
318	The potential of agrivoltaic systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 299-308.	8.2	352
319	Micro/small wind turbine power control for electrolysis applications. <i>Renewable Energy</i> , 2016, 87, 182-192.	4.3	13
320	New technology adoption for Russian energy generation: What does it cost? A case study for Moscow. <i>Applied Energy</i> , 2016, 162, 924-939.	5.1	11
321	Open-source, self-replicating 3-D printer factory for small-business manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 633-642.	1.5	84
322	Nanoscale study of MoSe ₂ /poly(3-hexylthiophene) bulk heterojunctions for hybrid photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 116-125.	3.0	11
323	Environmental impact assessment of monocrystalline silicon solar photovoltaic cell production: a case study in China. <i>Journal of Cleaner Production</i> , 2016, 112, 1025-1032.	4.6	75
324	Prospects for grid-connected solar PV in Kenya: A systems approach. <i>Applied Energy</i> , 2016, 161, 583-590.	5.1	58
325	Performance analysis and economic assessment of different photovoltaic technologies based on experimental measurements. <i>Renewable Energy</i> , 2016, 85, 1-11.	4.3	84
326	Photovoltaic power plants: a multicriteria approach to investment decisions and a case study in western Spain. <i>Annals of Operations Research</i> , 2016, 245, 163-175.	2.6	9
327	Sustainability of Rooftop Technologies in Cold Climates: Comparative Life Cycle Assessment of White Roofs, Green Roofs, and Photovoltaic Panels. <i>Journal of Industrial Ecology</i> , 2016, 20, 249-262.	2.8	35
328	BIPV: building envelope solutions in a multi-criteria approach. A method for assessing life-cycle costs in the early design phase. <i>Advances in Building Energy Research</i> , 2017, 11, 104-129.	1.1	22
329	Optimization and optical characterization of vertical nanowire arrays for core-shell structure solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 640-648.	3.0	10
330	Cost dynamics in the deployment of photovoltaics: Insights from the German market for building-sited systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 948-960.	8.2	34
331	Evaluating decentralized energy investments: Spatial value of on-site PV electricity. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 1217-1222.	8.2	14
332	Levelized cost of electricity for solar photovoltaic and electrical energy storage. <i>Applied Energy</i> , 2017, 190, 191-203.	5.1	345
333	Six-years-long effects of the Italian policies for photovoltaics on the pay-back period of grid-connected PV systems installed in urban contexts. <i>Energy</i> , 2017, 122, 458-470.	4.5	11

#	ARTICLE	IF	CITATIONS
334	Development of the smart photovoltaic system blind and its impact on net-zero energy solar buildings using technical-economic-political analyses. <i>Energy</i> , 2017, 124, 382-396.	4.5	59
335	Mapping the geographic distribution of the economic viability of photovoltaic load displacement projects in SW USA. <i>Renewable Energy</i> , 2017, 107, 101-112.	4.3	17
336	Environmental life cycle assessment and techno-economic analysis of triboelectric nanogenerators. <i>Energy and Environmental Science</i> , 2017, 10, 653-671.	15.6	130
337	The economics of coal power generation in China. <i>Energy Policy</i> , 2017, 105, 1-9.	4.2	61
338	A probabilistic approach to the computation of the levelized cost of electricity. <i>Energy</i> , 2017, 124, 372-381.	4.5	35
339	Life cycle cost and sensitivity analysis of a hydrogen system using low-price electricity in China. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1899-1911.	3.8	54
340	A hybrid PV/T collector using spectrally selective absorbing nanofluids. <i>Applied Energy</i> , 2017, 193, 1-14.	5.1	159
341	Microgrid cost optimization for a mixed-use building. , 2017, , .		18
342	A financial approach to renewable energy production in Greece using goal programming. <i>Renewable Energy</i> , 2017, 108, 37-51.	4.3	37
343	Economic feasibility of residential and commercial PV technology: The Chilean case. <i>Renewable Energy</i> , 2017, 111, 332-343.	4.3	47
344	Optimizing angles of rooftop photovoltaics, ratios of solar to vegetated roof systems, and economic benefits, in Portland, Oregon, USA. <i>Environment Systems and Decisions</i> , 2017, 37, 320-331.	1.9	5
345	A technoeconomic analysis of perovskite solar module manufacturing with low-cost materials and techniques. <i>Energy and Environmental Science</i> , 2017, 10, 1297-1305.	15.6	438
346	A key review of building integrated photovoltaic (BIPV) systems. <i>Engineering Science and Technology, an International Journal</i> , 2017, 20, 833-858.	2.0	207
347	Energy security, uncertainty and energy resource use options in Ethiopia. <i>International Journal of Energy Sector Management</i> , 2017, 11, 91-117.	1.2	17
348	Six-years-long effects of the Italian policies for photovoltaics on the grid parity of grid-connected photovoltaic systems installed in urban contexts. <i>Energy</i> , 2017, 130, 55-75.	4.5	26
349	PEM fuel cell degradation effects on the performance of a stand-alone solar energy system. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13217-13225.	3.8	23
350	Revisiting the techno-economic analysis process for building-mounted, grid-connected solar photovoltaic systems: Part one – Review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 1379-1393.	8.2	37
351	Techno-economic challenges of tidal energy conversion systems: Current status and trends. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 536-550.	8.2	86

#	ARTICLE	IF	CITATIONS
352	U.S. market for solar photovoltaic plug-and-play systems. <i>Renewable Energy</i> , 2017, 103, 255-264.	4.3	21
353	Configuring residential PV net-metering policies – A focus on the Mediterranean region. <i>Renewable Energy</i> , 2017, 113, 795-812.	4.3	46
354	A techno-economic assessment of offshore wind energy in Chile. <i>Energy</i> , 2017, 133, 191-205.	4.5	60
355	Cost of power or power of cost: A U.S. modeling perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 861-874.	8.2	34
356	Evaluating the effect of technology transformation on the electricity utility industry. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 341-351.	8.2	44
357	Power and energy potential of mass-scale photovoltaic noise barrier deployment: A case study for the U.S. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 125-132.	8.2	27
358	Assessing the combined effect of the diffusion of solar rooftop generation, energy conservation and efficient appliances in households. <i>Journal of Cleaner Production</i> , 2017, 162, 491-503.	4.6	22
359	Employment creation potential of renewable power generation technologies: A life cycle approach. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 128-136.	8.2	81
360	Performance evaluation of stand alone, grid connected and hybrid renewable energy systems for rural application: A comparative review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 1378-1389.	8.2	171
361	Solar energy absorption mediated by surface plasma polaritons in spectrally selective dielectric-metal-dielectric coatings: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1050-1077.	8.2	106
362	Development of an integrated multi-objective optimization model for determining the optimal solar incentive design. <i>International Journal of Energy Research</i> , 2017, 41, 1749-1766.	2.2	12
363	Large-scale PV power generation in China: A grid parity and techno-economic analysis. <i>Energy</i> , 2017, 134, 256-268.	4.5	70
364	Potential lives saved by replacing coal with solar photovoltaic electricity production in the U.S.. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 710-715.	8.2	41
365	Virtuous cycle of solar photovoltaic development in new regions. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 1357-1366.	8.2	10
366	Optimal Energy Management and Marginal-Cost Electricity Pricing in Microgrid Network. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 3286-3298.	7.2	39
367	Applications of Hybrid Photovoltaic Modules with Thermoelectric Cooling. <i>Energy Procedia</i> , 2017, 111, 904-913.	1.8	23
368	A study on GaN based converters for the application of power conditioning of photovoltaic systems. , 2017, , .		1
369	Quantifying economic risk in photovoltaic power projects. <i>Renewable Energy</i> , 2017, 109, 422-433.	4.3	14

#	ARTICLE	IF	CITATIONS
370	Design and analysis of rooftop grid tied 50 kW capacity Solar Photovoltaic (SPV) power plant. Renewable and Sustainable Energy Reviews, 2017, 77, 1288-1299.	8.2	32
371	Impact of operation strategies of large scale battery systems on distribution grid planning in Germany. Renewable and Sustainable Energy Reviews, 2017, 74, 1042-1063.	8.2	59
372	Integrated photovoltaic-grid dc fast charging system for electric vehicle: A review of the architecture and control. Renewable and Sustainable Energy Reviews, 2017, 69, 1243-1257.	8.2	117
373	Levelized cost of energy modeling for concentrated solar power projects: A China study. Energy, 2017, 120, 117-127.	4.5	87
374	A worldwide assessment of economic feasibility of HCPV power plants: Profitability and competitiveness. Energy, 2017, 119, 408-424.	4.5	42
375	Hybrid Perovskite Photovoltaic Devices: Properties, Architecture, and Fabrication Methods. Energy Technology, 2017, 5, 373-401.	1.8	26
376	Quantifying rooftop photovoltaic solar energy potential: A machine learning approach. Solar Energy, 2017, 141, 278-296.	2.9	163
377	The Improvement of System Damping by Grid Integration of PV Energy Sources. , 2017, , .		0
378	Multi-criteria evaluation of solid oxide fuel cell based combined cooling heating and power (SOFC-CCHP) applications for public buildings in China. Energy, 2017, 141, 273-289.	4.5	87
379	Agrivoltaic potential on grape farms in India. Sustainable Energy Technologies and Assessments, 2017, 23, 104-110.	1.7	92
380	Improved framework for techno-economical optimization of wind energy production. Sustainable Energy Technologies and Assessments, 2017, 23, 57-72.	1.7	16
381	Washing away barriers. Nature Energy, 2017, 2, 772-773.	19.8	14
382	Economic evaluation of Qeshm island MED-desalination plant coupling with different energy sources including fossils and nuclear power plants. Desalination, 2017, 422, 101-112.	4.0	27
383	Current progress and scientific challenges in the advancement of organicâ€“inorganic lead halide perovskite solar cells. New Journal of Chemistry, 2017, 41, 10508-10527.	1.4	21
384	Assessing the potential of PV hybrid systems to cover HVAC loads in a grid-connected residential building through intelligent control. Applied Energy, 2017, 206, 249-266.	5.1	40
385	To buy the system or to buy the service: the emergence of a solar service model in Thailand. Renewable Energy Focus, 2017, 21, 1-10.	2.2	12
386	Data-driven planning of distributed energy resources amidst socio-technical complexities. Nature Energy, 2017, 2, .	19.8	73
387	Will recent boom in coal power lead to a bust in China? A micro-economic analysis. Energy Policy, 2017, 108, 645-656.	4.2	23

#	ARTICLE	IF	CITATIONS
388	15.3%-Efficient GaAsP Solar Cells on GaP/Si Templates. ACS Energy Letters, 2017, 2, 1911-1918.	8.8	44
389	Norwegian Waste-to-Energy: Climate change, circular economy and carbon capture and storage. Resources, Conservation and Recycling, 2017, 126, 50-61.	5.3	75
390	Multi-criteria revision of the Hungarian Renewable Energy Utilization Action Plan – Review of the aspect of economy. Renewable and Sustainable Energy Reviews, 2017, 80, 1187-1200.	8.2	10
391	Sensitivity analysis for III-V/Si tandem solar cells: A theoretical study. Japanese Journal of Applied Physics, 2017, 56, 08MC14.	0.8	2
392	Impact of devaluation on grid parity for residential solar generation in Latin America. IEEE Latin America Transactions, 2017, 15, 2097-2102.	1.2	1
393	Solar air heater for residential space heating. Energy, Ecology and Environment, 2017, 2, 387-403.	1.9	25
394	Analysis of inverter sizing ratio for PV systems considering local climate data in central Brazil. IET Renewable Power Generation, 2017, 11, 1364-1370.	1.7	11
395	Examining interconnection and net metering policy for distributed generation in the United States. Renewable Energy Focus, 2017, 22-23, 10-19.	2.2	35
396	Assessment of rooftop photovoltaic potentials at the urban level using publicly available geodata and image recognition techniques. Solar Energy, 2017, 155, 561-573.	2.9	108
397	Optimal policies to promote efficient distributed generation of electricity. Journal of Regulatory Economics, 2017, 52, 159-188.	0.8	15
398	Techno-economic comparison of solar organic Rankine cycle (ORC) and photovoltaic (PV) systems with energy storage. Renewable Energy, 2017, 113, 1250-1260.	4.3	73
400	3-D printing solar photovoltaic racking in developing world. Energy for Sustainable Development, 2017, 36, 1-5.	2.0	34
401	Establishment of a base price for the Solar Renewable Energy Credit (SREC) from the perspective of residents and state governments in the United States. Renewable and Sustainable Energy Reviews, 2017, 75, 1066-1080.	8.2	18
402	Optimal sizing of residential PV-systems from a household and social cost perspective. Solar Energy, 2017, 141, 49-58.	2.9	29
403	Degradation analysis of photovoltaic modules under tropical climatic conditions and its impacts on LCOE. Renewable Energy, 2017, 102, 199-204.	4.3	58
404	Calculation of levelized costs of electricity for various electrical energy storage systems. Renewable and Sustainable Energy Reviews, 2017, 67, 908-920.	8.2	133
405	Are policy incentives for solar power effective? Evidence from residential installations in the Northeast. Journal of Environmental Economics and Management, 2017, 81, 132-151.	2.1	125
406	Market dynamics, innovation, and transition in China's solar photovoltaic (PV) industry: A critical review. Renewable and Sustainable Energy Reviews, 2017, 69, 197-206.	8.2	91

#	ARTICLE	IF	CITATIONS
407	Costâ€Performance Analysis of Perovskite Solar Modules. <i>Advanced Science</i> , 2017, 4, 1600269.	5.6	345
408	Optimal cost-based model for sizing grid-connected PV and battery energy system. , 2017, , .		11
409	Techno-Economic Forecasts of Lithium Nitrates for Thermal Storage Systems. <i>Sustainability</i> , 2017, 9, 810.	1.6	8
410	Open-Source Automated Mapping Four-Point Probe. <i>Materials</i> , 2017, 10, 110.	1.3	27
411	Assessment of the Carbon Footprint, Social Benefit of Carbon Reduction, and Energy Payback Time of a High-Concentration Photovoltaic System. <i>Sustainability</i> , 2017, 9, 27.	1.6	13
412	Policy and Environmental Implications of Photovoltaic Systems in Farming in Southeast Spain: Can Greenhouses Reduce the Greenhouse Effect?. <i>Energies</i> , 2017, 10, 761.	1.6	27
413	Performance Evaluation of Photovoltaic Solar System with Different Cooling Methods and a Bi-Reflector PV System (BRPVS): An Experimental Study and Comparative Analysis. <i>Energies</i> , 2017, 10, 826.	1.6	33
414	Lithium-Ion Battery Storage for the Gridâ€A Review of Stationary Battery Storage System Design Tailored for Applications in Modern Power Grids. <i>Energies</i> , 2017, 10, 2107.	1.6	480
415	Statistical analysis of the electric energy production from photovoltaic conversion using mobile and fixed constructions. <i>E3S Web of Conferences</i> , 2017, 19, 01002.	0.2	13
416	Minimisation of the LCOE for the hybrid power supply system with the lead-acid battery. <i>E3S Web of Conferences</i> , 2017, 19, 01030.	0.2	12
417	The Economic Feasibility of Residential Energy Storage Combined with PV Panels: The Role of Subsidies in Italy. <i>Energies</i> , 2017, 10, 1434.	1.6	32
418	Design of Post-Consumer Modification of Standard Solar Modules to Form Large-Area Building-Integrated Photovoltaic Roof Slates. <i>Designs</i> , 2017, 1, 9.	1.3	10
419	Technical Solar Photovoltaic Potential of Scaled Parking Lot Canopies: A Case Study of Walmart U.S.A.. <i>Journal on Innovation and Sustainability</i> , 2017, 8, 104.	0.2	9
420	Willingness to Pay for Solar Panels and Smart Grids. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	3
421	Potential Lives Saved by Replacing Coal with Solar Photovoltaic Electricity Production in the U.S.. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	0
422	General Design Procedures for Airport-Based Solar Photovoltaic Systems. <i>Energies</i> , 2017, 10, 1194.	1.6	14
423	Examining Interconnection and Net Metering Policy for Distributed Generation in the United States. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	0
424	Do Smart Grids boost investments in domestic PV plants? Evidence from the Italian electricity market. <i>Energy</i> , 2018, 149, 890-902.	4.5	37

#	ARTICLE	IF	CITATIONS
425	Modelling distributed photovoltaic system with and without battery storage: A case study in Belem, northern Brazil. <i>Journal of Energy Storage</i> , 2018, 17, 11-19.	3.9	17
426	A compact and high-power silicon-wafer solar strip-cells-array module integrated with an array concentrator. <i>Chinese Physics B</i> , 2018, 27, 018802.	0.7	3
427	A rule-based energy management scheme for uninterrupted electric vehicles charging at constant price using photovoltaic-grid system. <i>Renewable Energy</i> , 2018, 125, 384-400.	4.3	96
428	A new low-cost installation scheme of PATs for pico-hydropower to recover energy in residential areas. <i>Renewable Energy</i> , 2018, 125, 1003-1014.	4.3	41
429	Microbial Fuel Cell (MFC) Development from Anaerobic Digestion System. <i>Green Energy and Technology</i> , 2018, , 9-31.	0.4	4
430	Cost-benefit evolution for concentrated solar power in China. <i>Journal of Cleaner Production</i> , 2018, 190, 471-482.	4.6	46
431	Sustainable Development Goals as a Guideline for Indicator Selection in Life Cycle Sustainability Assessment. <i>Procedia CIRP</i> , 2018, 69, 59-65.	1.0	56
432	Energy Yield Limits for Single-Junction Solar Cells. <i>Joule</i> , 2018, 2, 1160-1170.	11.7	38
433	The price of solar energy: Comparing competitive auctions for utility-scale solar PV in developing countries. <i>Energy Policy</i> , 2018, 118, 133-148.	4.2	104
434	The levelized costs of electricity generation by the CDM power projects. <i>Energy</i> , 2018, 148, 235-246.	4.5	12
435	The social profitability of photovoltaics in Germany. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 631-641.	4.4	6
436	Barriers to investment in utility-scale variable renewable electricity (VRE) generation projects. <i>Renewable Energy</i> , 2018, 121, 730-744.	4.3	42
437	Economic impact of substituting solar photovoltaic electric production for tobacco farming. <i>Land Use Policy</i> , 2018, 72, 503-509.	2.5	12
438	Critical analysis on the quality of stability studies of perovskite and dye solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 730-738.	15.6	35
439	SU+RE Power: Energy Independence and the Sustainable Resilient Sun. <i>Architectural Design</i> , 2018, 88, 64-71.	0.1	2
440	Analysis of generation cost changes during China's energy transition. <i>Energy and Environment</i> , 2018, 29, 456-472.	2.7	9
441	Analysing the economic impact of the new renewable electricity support scheme on solar PV plants in Spain. <i>Energy Policy</i> , 2018, 114, 323-331.	4.2	16
442	A strategic analysis of tidal current energy conversion systems in the European Union. <i>Applied Energy</i> , 2018, 212, 527-551.	5.1	52

#	ARTICLE	IF	CITATIONS
443	A decision support tool to assist with lifetime extension of wind turbines. <i>Renewable Energy</i> , 2018, 120, 423-433.	4.3	41
444	Insertion of the AGS layer at the CIGSe/ITO interface: A way to reduce the formation of the GaOx interfacial phase in CIGSe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 29-37.	3.0	12
445	The experimental investigation of a hybrid photovoltaic-thermoelectric power generator solar cavity-receiver. <i>Solar Energy</i> , 2018, 161, 38-46.	2.9	51
446	Geographic maps of the impact of government incentives on the economic viability of solar power. <i>Renewable Energy</i> , 2018, 122, 497-506.	4.3	11
447	Influence of solar technology in the economic performance of PV power plants in Europe. A comprehensive analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 488-501.	8.2	92
448	Economic study on LFG energy projects in function of the number of generators. <i>Sustainable Cities and Society</i> , 2018, 41, 587-600.	5.1	17
450	Managerial flexibility in levelized cost measures: A framework for incorporating uncertainty in energy investment decisions. <i>Energy</i> , 2018, 151, 211-225.	4.5	7
451	Economic analysis of a residential PV system from the timing perspective: A real option model. <i>Renewable Energy</i> , 2018, 125, 783-795.	4.3	38
452	Techno-economic potential of largescale photovoltaics in Bahrain. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 27, 40-45.	1.7	46
453	Boosting Light Harvesting in Perovskite Solar Cells by Biomimetic Inverted Hemispherical Architected Polymer Layer with High Haze Factor as an Antireflective Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13113-13123.	4.0	52
454	Homebuyersâ€™ preferences concerning installed photovoltaic systems. <i>Journal of European Real Estate Research</i> , 2018, 11, 102-124.	0.3	10
455	Refining energy sources in winemaking industry by using solar energy as alternatives for fossil fuels: A review and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 88, 278-296.	8.2	70
456	A BREAK-EVEN ANALYSIS AND IMPACT ANALYSIS OF RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEMS CONSIDERING STATE SOLAR INCENTIVES. <i>Technological and Economic Development of Economy</i> , 2018, 24, 358-382.	2.3	20
457	Techno-economic review of solar heat pump systems for residential heating applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 22-32.	8.2	106
458	Economic feasibility of solar PV system for rural electrification in Sub-Sahara Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2537-2547.	8.2	70
459	Decarbonizing the boardroom? Aligning electric utility executive compensation with climate change incentives. <i>Energy Research and Social Science</i> , 2018, 37, 153-162.	3.0	10
460	Regional PV installed capacity forecasting considering generation costs and time lag of influential factors. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2018, 13, 201-211.	0.8	4
461	Planning in a changing environment: Applications of portfolio optimisation to deal with risk in the electricity sector. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3808-3823.	8.2	22

#	ARTICLE	IF	CITATIONS
462	On the role of maximum demand charges in the presence of distributed generation resources. Energy Economics, 2018, 69, 237-249.	5.6	28
463	Energy and economic performance of rooftop PV panels in the hot and dry climate of Iran. Journal of Cleaner Production, 2018, 174, 1204-1214.	4.6	67
464	A Scenario Analysis of Solar Photovoltaic Grid Parity in the Maldives: The Case of Malahini Resort. Sustainability, 2018, 10, 4045.	1.6	18
465	The Long Term Effect of Iran's Photovoltaic Support Policy on Consumers' Electricity Price. , 2018, , .		0
466	Development and Test of Solutions to Enlarge the Power of PV Irrigation and Application to a 140 kW PV-Diesel Representative Case. Energies, 2018, 11, 3538.	1.6	11
467	Solar Photovoltaic output prediction using Jackknife Regression. , 2018, , .		0
468	Boosting DC/AC Ratio of PV Plant for BESS Integration on DC side. , 2018, , .		4
469	Performance Analysis of 25 MW Grid Connected Solar Photovoltaic Plant in Gujarat, India. , 2018, , .		3
470	Cost Assessment: Electricity Generating Sources Against Energy Efficiency Measures. Journal of Environmental Assessment Policy and Management, 2018, 20, 1850004.	4.3	1
471	Economic Impact of Substituting Solar Photovoltaic Electric Production for Tobacco Farming. SSRN Electronic Journal, 0, , .	0.4	0
472	Effective Harness of Wind Energy Turbines. Journal of Electrical & Electronic Systems, 2018, 07, .	0.2	1
473	Prognosis-Based Operating Strategies for Smart Homes with Power-to-Heat Applications. Energy Procedia, 2018, 155, 136-148.	1.8	7
474	Solar e-Cooking: A Proposition for Solar Home System Integrated Clean Cooking. Energies, 2018, 11, 2933.	1.6	15
475	Measurement of Economic Feasibility of Photovoltaic Power Plants - Application to Turkey. , 2018, , .		1
476	An Alternative Approach to the Feasibility of Photovoltaic Power Stations in Light of Falling PV Panel Prices. , 2018, , .		3
477	New approach for maximizing generation and optimal utilization of available space for solar PV system. Journal of Renewable and Sustainable Energy, 2018, 10, 063703.	0.8	4
478	Assessing the Effect of Incentive Policies on Residential PV Investments in Colombia. Energies, 2018, 11, 2614.	1.6	10
479	Investment Determinants in Self-Consumption Facilities: Characterization and Qualitative Analysis in Spain. Energies, 2018, 11, 2178.	1.6	13

#	ARTICLE	IF	CITATIONS
480	Ensuring technical competency for management of research-focused organizations. <i>Journal of High Technology Management Research</i> , 2018, 29, 172-180.	2.7	2
481	<i>Advances in Finance & Applied Economics</i> , 2018, , .		0
482	Assessing an Investor's Decision to Invest in Solar Power Across Indian States. , 2018, , 41-62.		0
483	A Multi-Objective Optimization of Energy, Economic, and Carbon Emission in a Production Model under Sustainable Supply Chain Management. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1744.	1.3	52
484	Probing of Local Multifield Coupling Phenomena of Advanced Materials by Scanning Probe Microscopy Techniques. <i>Advanced Materials</i> , 2018, 30, e1803064.	11.1	22
485	Comparative Study and Simulation of Different MPPT Techniques in MATLAB/Simulink. , 2018, , .		4
486	Monofacial vs bifacial Si-based PV modules: Which one is more cost-effective?. <i>Solar Energy</i> , 2018, 176, 412-438.	2.9	98
487	Risk Analysis of Levelized Cost of Electricity to Renewable Energy in Brazil. , 2018, , .		0
488	A bottom-up approach for estimating the economic potential of the rooftop solar photovoltaic system considering the spatial and temporal diversity. <i>Applied Energy</i> , 2018, 232, 640-656.	5.1	54
489	Novel Solar Cell Materials: Insights from First-Principles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27107-27126.	1.5	20
490	Economic Advantages of Dry-Etched Black Silicon in Passivated Emitter Rear Cell (PERC) Photovoltaic Manufacturing. <i>Energies</i> , 2018, 11, 2337.	1.6	28
491	Proposed method for contracting of wind-photovoltaic projects connected to the Brazilian electric system using multiobjective programming. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 97, 377-389.	8.2	15
492	The cost and marketability of renewable energy after power market reform in China: A review. <i>Journal of Cleaner Production</i> , 2018, 204, 409-424.	4.6	39
493	The economic performance of concentrated solar power industry in China. <i>Journal of Cleaner Production</i> , 2018, 205, 799-813.	4.6	30
494	Review on Substrate and Molybdenum Back Contact in CIGS Thin Film Solar Cell. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-14.	1.4	43
495	A scanning probe microscopy study of nanostructured TiO ₂ /poly(3-hexylthiophene) hybrid heterojunctions for photovoltaic applications. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2087-2096.	1.5	3
496	Levelized cost of energy from private and social perspectives: The case of improved alkaline water electrolysis. <i>Journal of Cleaner Production</i> , 2018, 203, 619-632.	4.6	25
497	Photovoltaics and Nanotechnology as Alternative Energy. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 211-241.	0.3	1

#	ARTICLE	IF	CITATIONS
498	On the competitiveness of grid-tied residential photovoltaic generation systems in Pakistan: Panacea or paradox?. <i>Energy Policy</i> , 2018, 119, 704-722.	4.2	19
499	Cost Analysis of Perovskite Tandem Photovoltaics. <i>Joule</i> , 2018, 2, 1559-1572.	11.7	266
500	Optimized Load Profile & Cost Analysis of Stand-alone Photovoltaic System for Rural Power Applications in Indian Scenario. <i>Smart Science</i> , 0, , 1-11.	1.9	2
501	Grid parity analysis of distributed PV generation using Monte Carlo approach: The Brazilian case. <i>Renewable Energy</i> , 2018, 127, 974-988.	4.3	26
502	Combined use of biogas from sanitary landfill and wastewater treatment plants for distributed energy generation in Brazil. <i>Resources, Conservation and Recycling</i> , 2018, 136, 376-388.	5.3	29
503	Effects of evaporator pinch point temperature difference on thermo-economic performance of geothermal organic Rankine cycle systems. <i>Geothermics</i> , 2018, 75, 249-258.	1.5	86
504	Development of a rooftop solar photovoltaic rating system considering the technical and economic suitability criteria at the building level. <i>Energy</i> , 2018, 160, 213-224.	4.5	21
505	Unraveling Photostability of Mixed Cation Perovskite Films in Extreme Environment. <i>Advanced Optical Materials</i> , 2018, 6, 1800262.	3.6	58
506	Product design: Impact of government policy and consumer preference on company profit and corporate social responsibility. <i>Computers and Chemical Engineering</i> , 2018, 118, 118-131.	2.0	17
507	Analysing the Prospects of Perovskite Solar Cells within the Purview of Recent Scientific Advancements. <i>Crystals</i> , 2018, 8, 242.	1.0	13
508	Value of Residential Investment in Photovoltaics and Batteries in Networks: A Techno-Economic Analysis. <i>Energies</i> , 2018, 11, 1022.	1.6	27
509	Government R&D investment decision-making in the energy sector: LCOE foresight model reveals what regression analysis cannot. <i>Energy Strategy Reviews</i> , 2018, 21, 1-15.	3.3	20
510	An economic analysis of residential photovoltaic systems with lithium ion battery storage in the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 1057-1066.	8.2	101
511	Reverse osmosis desalination plants in Brazil: A cost analysis using three different energy sources. <i>Sustainable Cities and Society</i> , 2018, 43, 134-143.	5.1	21
512	Smart Grid Architecture for Rural Distribution Networks: Application to a Spanish Pilot Network. <i>Energies</i> , 2018, 11, 844.	1.6	20
513	The economics of residential solar water heaters in emerging economies: The case of Turkey. <i>Energy Economics</i> , 2018, 75, 285-299.	5.6	28
514	Thin-film CdTe photovoltaics – The technology for utility scale sustainable energy generation. <i>Solar Energy</i> , 2018, 173, 511-516.	2.9	45
515	Comparison of different operation strategies for PV battery home storage systems including forecast-based operation strategies. <i>Applied Energy</i> , 2018, 229, 884-899.	5.1	82

#	ARTICLE	IF	CITATIONS
516	Estimation of the optimal government rebate for promoting the photovoltaic system in multi-family housing complexes. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 720-728.	8.2	3
517	Drivers of growth in commercial-scale solar PV capacity. <i>Energy Policy</i> , 2018, 120, 481-491.	4.2	40
518	Photophysical Properties and Improved Stability of Organic-Inorganic Perovskite by Surface Passivation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15799-15818.	1.5	70
519	Understanding the Effects of Cd and Ag Doping in $\text{Cu}_2\text{ZnSnS}_4$ Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4543-4555.	3.2	76
520	4.14 Electromechanical Energy Conversion. , 2018, , 598-635.		7
521	The slow expansion of renewable energy in Russia: Competitiveness and regulation issues. <i>Energy Policy</i> , 2018, 120, 600-609.	4.2	59
522	Wind power potential for energy sustainability and climate change mitigation: A case study in Taiwan. <i>Energy and Environment</i> , 2019, 30, 304-321.	2.7	8
523	Integration of Risk and Uncertainty on Levelized Cost of Electricity Calculation. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 825-831.	0.3	0
524	A new approach to sizing the photovoltaic generator in self-consumption systems based on cost-competitiveness, maximizing direct self-consumption. <i>Renewable Energy</i> , 2019, 130, 1021-1035.	4.3	74
525	Accounting for low solar resource days to size 100% solar microgrids power systems in Africa. <i>Renewable Energy</i> , 2019, 131, 448-458.	4.3	17
526	Preparation of high-density fused quartz ceramics based on a J2-optimality mixed orthogonal method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 233, 022009.	0.2	0
527	The levelized cost of carbon: a practical, if imperfect, method to compare CO2 abatement projects. <i>Climate Policy</i> , 2019, 19, 1132-1143.	2.6	7
528	A Fast All-sky Radiation Model for Solar applications with Narrowband Irradiances on Tilted surfaces (FARMS-NIT): Part II. The cloudy-sky model. <i>Solar Energy</i> , 2019, 188, 799-812.	2.9	31
529	Comprehensive performance evaluation of various solar PV system configurations. <i>IET Renewable Power Generation</i> , 2019, 13, 1261-1270.	1.7	15
530	Exploring the Profitability and Efficiency of Variable Renewable Energy in Spot Electricity Market: Uncovering the Locational Price Disadvantages. <i>Energies</i> , 2019, 12, 2820.	1.6	4
531	The potential of forecasting in reducing the LCOE in PV plants under ramp-rate restrictions. <i>Energy</i> , 2019, 188, 116053.	4.5	31
532	Nanoscale electrical property enhancement through antimony incorporation to pave the way for the development of low-temperature processed $\text{Cu}_2\text{ZnSn(S,Se)}_4$ solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3135-3142.	5.2	35
533	Methodical review of the literature referred to the dye-sensitized solar cells: Bibliometrics analysis and road mapping. <i>Chinese Physics B</i> , 2019, 28, 118401.	0.7	7

#	ARTICLE	IF	CITATIONS
534	Particle swarm optimisation-based model and analysis of photovoltaic module characteristics in snowy conditions. <i>IET Renewable Power Generation</i> , 2019, 13, 1950-1957.	1.7	7
535	Economic viability of captive off-grid solar photovoltaic and diesel hybrid energy systems for the Nigerian private sector. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109348.	8.2	25
536	Space optimization of concentrator photovoltaic systems based on levelized cost of electricity in solar power plant. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012047.	0.2	0
537	Energy potential using landfill biogas and solar photovoltaic system: a case study in Brazil. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1587-1601.	1.6	7
538	Techno-economic uncertainty quantification and robust design optimization of a directly coupled photovoltaic-electrolyzer system. <i>Energy Procedia</i> , 2019, 158, 1750-1756.	1.8	2
539	Performance evaluation of different photovoltaic technologies in the region of Ifrane, Morocco. <i>Energy for Sustainable Development</i> , 2019, 52, 96-103.	2.0	29
540	Optimum capacity of the inverters in concentrator photovoltaic power plants with emphasis on shading impact. <i>Energy</i> , 2019, 187, 115964.	4.5	10
541	A comparison of arrangements for increasing self-consumption and maximising the value of distributed photovoltaics on apartment buildings. <i>Solar Energy</i> , 2019, 193, 372-386.	2.9	50
542	A review of crystalline silicon bifacial photovoltaic performance characterisation and simulation. <i>Energy and Environmental Science</i> , 2019, 12, 116-148.	15.6	155
543	Shortcomings of the traditional "levelized cost of energy" [LCOE] for the determination of grid parity. <i>Energy</i> , 2019, 171, 1009-1016.	4.5	51
544	A novel energy storage system incorporating electrically rechargeable liquid fuels as the storage medium. <i>Science Bulletin</i> , 2019, 64, 270-280.	4.3	62
545	Residential demand response considering distributed PV consumption: A model based on China's PV policy. <i>Energy</i> , 2019, 172, 443-456.	4.5	40
546	Growth and characterization of Cu ₂ SnS ₃ (CTS), Cu ₂ SnSe ₃ (CTSe), and Cu ₂ Sn(S,Se) ₃ (CTSSe) thin films using dip-coated Cu-Sn precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12612-12618.	1.1	18
547	Experimental adjustment and validation of a generalized solar-assisted cogeneration system model. <i>International Journal of Energy Research</i> , 2019, 43, 5319-5332.	2.2	0
548	Learning Curve Analysis of Wind Power and Photovoltaics Technology in US: Cost Reduction and the Importance of Research, Development and Demonstration. <i>Sustainability</i> , 2019, 11, 2310.	1.6	28
549	The German feed-in tariff revisited - an empirical investigation on its distributional effects. <i>Energy Policy</i> , 2019, 132, 344-356.	4.2	51
550	The Possible Role of Modular Nuclear Reactors in District Heating: Case Helsinki Region. <i>Energies</i> , 2019, 12, 2195.	1.6	16
551	Numerical and experimental study of an improved method for prediction of snow melting and snow sliding from photovoltaic panels. <i>Applied Thermal Engineering</i> , 2019, 158, 113773.	3.0	12

#	ARTICLE	IF	CITATIONS
552	Energy potential and economic analysis of hydrokinetic turbines implementation in rivers: An approach using numerical predictions (CFD) and experimental data. <i>Renewable Energy</i> , 2019, 143, 648-662.	4.3	31
553	A solar fuel plant via supercritical water gasification integrated with Fischer-Tropsch synthesis: System-level dynamic simulation and optimisation. <i>Energy Conversion and Management</i> , 2019, 192, 71-87.	4.4	25
554	A worldwide cost-based design and optimization of tilted bifacial solar farms. <i>Applied Energy</i> , 2019, 247, 467-479.	5.1	89
555	Complete Procedure for the Economic, Financial and Cost-Competitiveness of Photovoltaic Systems with Self-Consumption. <i>Energies</i> , 2019, 12, 345.	1.6	16
556	Bonding Strengths and Thermal Degradation of Photovoltaic Module Ribbon Solder Joints. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 489-496.	2.7	0
557	Surrogate-assisted robust design optimization and global sensitivity analysis of a directly coupled photovoltaic-electrolyzer system under techno-economic uncertainty. <i>Applied Energy</i> , 2019, 248, 310-320.	5.1	43
558	On the number of PV modules in series for large-power irrigation systems. <i>Energy Conversion and Management</i> , 2019, 186, 516-525.	4.4	19
559	Policies to Overcome Barriers for Renewable Energy Distributed Generation: A Case Study of Utility Structure and Regulatory Regimes in Michigan. <i>Energies</i> , 2019, 12, 674.	1.6	31
560	Optimization and operation of integrated homes with photovoltaic battery energy storage systems and power-to-heat coupling. <i>Energy Conversion and Management: X</i> , 2019, 1, 100005.	0.9	13
561	Hybrid energy sources status of Pakistan: An optimal technical proposal to solve the power crises issues. <i>Energy Strategy Reviews</i> , 2019, 24, 132-153.	3.3	56
562	The economic competitiveness of promising nuclear energy system: A closer look at the input uncertainties in LCOE analysis. <i>International Journal of Energy Research</i> , 2019, 43, 3928-3958.	2.2	10
563	Integrated Economic Adoption Model for residential grid-connected photovoltaic systems: An Australian case study. <i>Energy Reports</i> , 2019, 5, 310-326.	2.5	48
564	Model for Spain. <i>SpringerBriefs in Energy</i> , 2019, , 15-50.	0.2	0
565	Can nanogenerators contribute to the global greening data centres?. <i>Nano Energy</i> , 2019, 60, 235-246.	8.2	8
566	Investigation of polysilicon passivated contact's resilience to potential-induced degradation. <i>Solar Energy Materials and Solar Cells</i> , 2019, 195, 168-173.	3.0	10
567	Comparison and Selection of Solar Radiation Data for Photovoltaic Power Generation Project. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 685-692.	1.2	3
568	Impact of shared battery energy storage systems on photovoltaic self-consumption and electricity bills in apartment buildings. <i>Applied Energy</i> , 2019, 245, 78-95.	5.1	125
569	Sustainability perspectives- a review for solar photovoltaic trends and growth opportunities. <i>Journal of Cleaner Production</i> , 2019, 227, 589-612.	4.6	144

#	ARTICLE	IF	CITATIONS
570	Potentiality of biomass-nuclear hybrid system deployment scenario: Techno-economic feasibility perspective in South Korea. <i>Energy</i> , 2019, 175, 1038-1054.	4.5	5
571	Comparison of the LCOE between coal-fired power plants with CCS and main low-carbon generation technologies: Evidence from China. <i>Energy</i> , 2019, 176, 143-155.	4.5	75
572	Evaluating the Effect of Financing Costs on PV Grid Parity by Applying a Probabilistic Methodology. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 425.	1.3	7
573	Performance Analysis of 4.08kWp Grid Connected PV System Based on Simulation and Experimental Measurements in Casablanca, Morocco. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 272-287.	0.5	1
574	Estimating the diffusion of rooftop PVs: A real estate economics perspective. <i>Energy</i> , 2019, 172, 1087-1097.	4.5	24
575	Decision-making based on energy costs: Comparing levelized cost of energy and energy system costs. <i>Energy Strategy Reviews</i> , 2019, 24, 68-82.	3.3	106
576	Life cycle and economic assessment of a solar panel array applied to a short route ferry. <i>Journal of Cleaner Production</i> , 2019, 219, 471-484.	4.6	46
577	Role of Na and Ca as Isovalent Dopants in Cu ₂ ZnSnS ₄ Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5792-5800.	3.2	24
578	Could 79 People Solarize the U.S. Electric Grid?. <i>Societies</i> , 2019, 9, 26.	0.8	2
579	The potential of roofs in city centers to be used for photovoltaic micro-installations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 564, 012128.	0.3	8
580	An Empirical Study on the Efficiency and Influencing Factors of the Photovoltaic Industry in China and an Analysis of Its Influencing Factors. <i>Sustainability</i> , 2019, 11, 6693.	1.6	12
581	Experimental Study of the Spectral and Angular Solar Irradiance. , 2019, , .		1
582	Performance of Bifacial Photovoltaic Modules on a Dual-Axis Tracker in a High-Latitude, High-Albedo Environment. , 2019, , .		13
583	The Technical Challenges Facing the Integration of Small-Scale and Large-scale PV Systems into the Grid: A Critical Review. <i>Electronics (Switzerland)</i> , 2019, 8, 1443.	1.8	30
584	Problems of energy supply of the main consumers of distributive networks of Iraq. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 552, 012010.	0.3	1
585	A Technical, Economic and Environmental Evaluation Study of Utilising Fixed, Single and Dual-Axis Solar Photovoltaic Systems in Boubyan and Failaka Islands in Kuwait. <i>American Journal of Engineering and Applied Sciences</i> , 2019, 12, 495-502.	0.3	2
586	Economic optimization of micro-grid operations by dynamic programming with real energy forecast. <i>Journal of Physics: Conference Series</i> , 2019, 1343, 012067.	0.3	4
587	Modeling and analysis of the solar photovoltaic levelized cost of electricity (LCoE) - case study in Kupang. <i>Journal of Physics: Conference Series</i> , 2019, 1364, 012066.	0.3	5

#	ARTICLE	IF	CITATIONS
588	Efficiency of 9KWp Sun Tracking Photovoltaic in Palembang, Indonesia. IOP Conference Series: Earth and Environmental Science, 2019, 347, 012129.	0.2	2
589	The effectiveness of Solar Tracker Use on Solar Panels to The Output of The Generated Electricity Power. IOP Conference Series: Earth and Environmental Science, 2019, 347, 012130.	0.2	9
590	Economic Competitiveness Evaluation of the Energy Sources: Comparison between a Financial Model and Levelized Cost of Electricity Analysis. Energies, 2019, 12, 4101.	1.6	15
591	Quantifying Operational Snow Losses Using External Snow Data and the Marion Model. , 2019, , .		1
592	Confirmation of the Degradation of Single Junction Amorphous Silicon Modules (a-Si:H). International Journal of Photoenergy, 2019, 2019, 1-13.	1.4	3
593	Advanced Asset Management Tools in Photovoltaic Plant Monitoring: UAV-Based Digital Mapping. Energies, 2019, 12, 4736.	1.6	24
594	Assessment of standalone solar PV-Battery system for electricity generation and utilization of excess power for water pumping. Solar Energy, 2019, 194, 766-776.	2.9	50
595	Cost Optimization of Off Grid Photovoltaic System by Increasing Conversion Efficiency. , 2019, , .		1
596	Reliability implications of partial shading on CIGS photovoltaic devices: A literature review. Journal of Materials Research, 2019, 34, 3977-3987.	1.2	15
597	Levelized-Cost-of-Electricity-Driven Design Optimization for Medium-Voltage Transformerless Photovoltaic Converters. , 2019, , .		6
598	Optimal Allocation of Photovoltaic in the Hybrid Power System using Knapsack Dynamic Programming. , 2019, , .		5
599	Without Subsidy, Will Chinese Renewable Energy Power Generation Have a Bright Future?. Emerging Markets Finance and Trade, 2021, 57, 3033-3066.	1.7	5
600	Energy transition from molecules to atoms and photons. Engineering Science and Technology, an International Journal, 2019, 22, 185-214.	2.0	23
601	Improvement in the performance of CIGS solar cells by introducing GaN nanowires on the absorber layer. Journal of Alloys and Compounds, 2019, 779, 643-647.	2.8	9
602	A Cost Analysis of Fully Solution-Processed ITO-Free Organic Solar Modules. Advanced Energy Materials, 2019, 9, 1802521.	10.2	93
603	Feasibility of 100% renewable energy-based electricity production for cities with storage and flexibility. Renewable Energy, 2019, 134, 698-709.	4.3	69
604	Optimized sizing of photovoltaic grid-connected electric vehicle charging system using particle swarm optimization. International Journal of Energy Research, 2019, 43, 500-522.	2.2	69
605	Smart rural grid pilot in Spain. , 2019, , 315-345.		2

#	ARTICLE	IF	CITATIONS
606	Feasibility evaluation of residential photovoltaic self-consumption projects in Peru. <i>Renewable Energy</i> , 2019, 136, 414-427.	4.3	25
607	Financial de-risking to unlock Africa's renewable energy potential. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 102, 75-82.	8.2	91
608	Evaluation of removing snow and ice from photovoltaic-thermal (PV/T) panels by circulating hot water. <i>Solar Energy</i> , 2019, 179, 226-235.	2.9	10
609	Optimal operational planning of scalable DC microgrid with demand response, islanding, and battery degradation cost considerations. <i>Applied Energy</i> , 2019, 237, 695-707.	5.1	111
610	Generating electrical energy through urban solid waste in Brazil: An economic and energy comparative analysis. <i>Journal of Environmental Management</i> , 2019, 231, 198-206.	3.8	70
612	Energetic, economic and environmental (3E) analyses and LCOE estimation of three technologies of PV grid-connected systems under different climates. <i>Solar Energy</i> , 2019, 178, 25-36.	2.9	107
613	Assessment of cost-competitiveness and profitability of fixed and tracking photovoltaic systems: The case of five specific sites. <i>Renewable Energy</i> , 2019, 134, 902-913.	4.3	60
614	Performance analysis of a photovoltaic/wind/diesel hybrid power generation system for domestic utilization in winnipeg, manitoba, canada. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 548-562.	1.3	28
615	Investigation of off-grid photovoltaic systems for a reverse osmosis desalination system: A case study. <i>Desalination</i> , 2019, 454, 91-103.	4.0	54
616	Comparative analysis of the economic feasibility of five large-power photovoltaic irrigation systems in the Mediterranean region. <i>Renewable Energy</i> , 2020, 145, 2671-2682.	4.3	22
617	Co-sputtered Cu ₂ ZnTi(S:Se) ₄ absorbers for thin film solar cells. <i>Renewable Energy</i> , 2020, 145, 1672-1676.	4.3	8
618	An investigation on performance analysis of different PV materials. <i>Materials Today: Proceedings</i> , 2020, 22, 330-334.	0.9	13
619	A new approach based on economic profitability to sizing the photovoltaic generator in self-consumption systems without storage. <i>Renewable Energy</i> , 2020, 148, 1017-1033.	4.3	40
620	Incineration of municipal solid waste in Brazil: An analysis of the economically viable energy potential. <i>Renewable Energy</i> , 2020, 149, 1386-1394.	4.3	72
621	Determining the Peer-to-Peer electricity trading price and strategy for energy prosumers and consumers within a microgrid. <i>Applied Energy</i> , 2020, 261, 114335.	5.1	85
622	A techno-economic evaluation of Virtual Net Metering for the Australian community housing sector. <i>Applied Energy</i> , 2020, 261, 114271.	5.1	16
623	Levelized cost of solar photovoltaics and wind supported by storage technologies to supply firm electricity. <i>Journal of Energy Storage</i> , 2020, 27, 101027.	3.9	41
624	Using real estate market fundamentals to determine the correct discount rate for decentralised energy investments. <i>Sustainable Cities and Society</i> , 2020, 53, 101953.	5.1	18

#	ARTICLE	IF	CITATIONS
625	Spatial and temporal variation in the value of solar power across United States electricity markets. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 121, 109594.	8.2	29
626	Open Source Energy System Modeling Using Break-Even Costs to Inform State-Level Policy: A North Carolina Case Study. <i>Environmental Science & Technology</i> , 2020, 54, 665-676.	4.6	6
627	The potential for grid defection of small and medium sized enterprises using solar photovoltaic, battery and generator hybrid systems. <i>Renewable Energy</i> , 2020, 148, 193-204.	4.3	18
628	Optimal sizing and power schedule in PV household-prosumers for improving PV self-consumption and providing frequency containment reserve. <i>Energy</i> , 2020, 191, 116554.	4.5	72
629	Sustainability Analysis of a Leakage-Monitoring Technique for Water Pipeline Networks. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	0.9	27
630	Dynamic modeling and small signal stability analysis of distributed photovoltaic grid-connected system with large scale of panel level DC optimizers. <i>Applied Energy</i> , 2020, 259, 114132.	5.1	71
631	Net energy and cost benefit of transparent organic solar cells in building-integrated applications. <i>Applied Energy</i> , 2020, 261, 114429.	5.1	69
632	Resource potential and variability assessment of solar and wind energy in India. <i>Energy</i> , 2020, 211, 118993.	4.5	56
633	Area and LCOE considerations in utility-scale, single-axis tracking PV power plant topology optimization. <i>Solar Energy</i> , 2020, 211, 433-445.	2.9	24
634	Carbon-nanofibers film as a back-contact buffer layer in CdTe thin film solar cell. <i>Optik</i> , 2020, 224, 165505.	1.4	7
635	A comprehensive review of variable renewable energy levelized cost of electricity. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110301.	8.2	135
636	Store-on grid scheme model for grid-tied solar photovoltaic systems for industrial sector application: Costs analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 41, 100797.	1.7	6
637	Optimum cleaning schedule of photovoltaic systems based on levelised cost of energy and case study in central Mexico. <i>Solar Energy</i> , 2020, 209, 11-20.	2.9	27
638	Economic potentials of community-shared solar plants from the utility-side of the meter – A Hungarian case. <i>Electricity Journal</i> , 2020, 33, 106826.	1.3	2
639	Technical and economic analysis of energy generation from waste incineration in Mexico. <i>Energy Strategy Reviews</i> , 2020, 31, 100542.	3.3	57
640	A Comparison of Dispatchable RES Technoeconomics: Is There a Niche for Concentrated Solar Power?. <i>Energies</i> , 2020, 13, 4768.	1.6	7
641	Techno-economic competitiveness of 50MW concentrating solar power plants for electricity generation under Kuwait climatic conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110342.	8.2	15
642	Bayesian updating of solar resource data for risk mitigation in project finance. <i>Solar Energy</i> , 2020, 207, 1390-1403.	2.9	7

#	ARTICLE	IF	CITATIONS
643	The impact of renewable on-site energy production on property values. <i>Journal of European Real Estate Research</i> , 2020, 13, 337-356.	0.3	10
644	Techno-economic assessment and deployment strategies for vertically-mounted photovoltaic panels. <i>Applied Energy</i> , 2020, 276, 115149.	5.1	17
645	Clarifications of and improvements to the equations used to calculate the levelized cost of electricity (LCOE), and comments on the weighted average cost of capital (WACC). <i>Energy</i> , 2020, 207, 118340.	4.5	28
646	Temperature-dependent energy gain of bifacial PV farms: A global perspective. <i>Applied Energy</i> , 2020, 276, 115405.	5.1	38
647	Solar photovoltaic module performance characterisation using single diode modeling. <i>E3S Web of Conferences</i> , 2020, 170, 01023.	0.2	3
648	Mission profile-oriented configuration of PV panels for lifetime and cost-efficiency of PV inverters. <i>Microelectronics Reliability</i> , 2020, 114, 113944.	0.9	5
649	Techno-Economic Feasibility Analysis of a Stand-Alone Photovoltaic System for Combined Aquaponics on Drylands. <i>Sustainability</i> , 2020, 12, 9556.	1.6	12
650	Optimal sizing and management strategy for PV household-prosumers with self-consumption/sufficiency enhancement and provision of frequency containment reserve. <i>Applied Energy</i> , 2020, 277, 115529.	5.1	53
651	Comparison of Economic Feasibility for Efficient Peer-to-Peer Electricity Trading of PV-Equipped Residential House in Korea. <i>Energies</i> , 2020, 13, 3568.	1.6	12
652	A comprehensive review and outlook of bifacial photovoltaic (bPV) technology. <i>Energy Conversion and Management</i> , 2020, 223, 113283.	4.4	93
653	The value of storage in electricity generation: A qualitative and quantitative review. <i>Journal of Energy Storage</i> , 2020, 32, 101872.	3.9	26
654	Near-Infrared-Transparent Perovskite Solar Cells and Perovskite-Based Tandem Photovoltaics. <i>Small Methods</i> , 2020, 4, 2000395.	4.6	63
655	Capacitor Load Based I-V Curve Tracer for Performance Characterisation of the Solar Photovoltaic System. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2020, 56, 168-177.	0.2	9
656	Carbon Emission Reduction Strategy for Energy Users in China. <i>Sustainability</i> , 2020, 12, 6498.	1.6	7
657	The Economic Viability of a Progressive Smart Building System with Power Storage. <i>Sustainability</i> , 2020, 12, 5998.	1.6	13
658	The short-term costs of local content requirements in the Indian solar auctions. <i>Nature Energy</i> , 2020, 5, 842-850.	19.8	26
659	PV cells and modules – State of the art, limits and trends. <i>Heliyon</i> , 2020, 6, e05666.	1.4	73
660	Which policy can promote renewable energy to achieve grid parity? Feed-in tariff vs. renewable portfolio standards. <i>Renewable Energy</i> , 2020, 162, 322-333.	4.3	38

#	ARTICLE	IF	CITATIONS
661	The Electric Riverboat Charging Station Location Problem. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-16.	0.9	8
662	Evaluating distributed photovoltaic (PV) generation to foster the adoption of energy storage systems (ESS) in time-of-use frameworks. <i>Solar Energy</i> , 2020, 208, 917-929.	2.9	28
663	Modeling a Solar Power Plant with Regard to Changes in Environmental Parameters. <i>Power Technology and Engineering</i> , 2020, 54, 548-554.	0.1	2
664	Developing Distributed PV in Beijing: Deployment Potential and Economics. <i>Frontiers in Energy Research</i> , 2020, 7, .	1.2	4
665	Performance improvement of photovoltaic modules via temperature homogeneity improvement. <i>Energy</i> , 2020, 203, 117816.	4.5	49
666	A techno-economic sizing method for grid-connected household photovoltaic battery systems. <i>Applied Energy</i> , 2020, 269, 115106.	5.1	86
667	Solar PV integration in commercial buildings for self-consumption based on life-cycle economic/environmental multi-objective optimization. <i>Journal of Cleaner Production</i> , 2020, 270, 122375.	4.6	44
668	Optimized power dispatch for solar photovoltaic-storage system with multiple buildings in bilateral contracts. <i>Applied Energy</i> , 2020, 273, 115253.	5.1	20
669	A first-phase screening method for site selection of large-scale solar plants with an application to Italy. <i>Land Use Policy</i> , 2020, 99, 104839.	2.5	8
670	Nonlinear Photovoltaic Degradation Rates: Modeling and Comparison Against Conventional Methods. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1112-1118.	1.5	56
671	Economic Analysis of Renewable Energy in the Electricity Marketization Framework: A Case Study in Guangdong, China. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	13
672	Coal-Biomass Co-Firing Power Generation Technology: Current Status, Challenges and Policy Implications. <i>Sustainability</i> , 2020, 12, 3692.	1.6	62
673	Stochastic Modeling of the Levelized Cost of Electricity for Solar PV. <i>Energies</i> , 2020, 13, 3017.	1.6	28
674	Potential of floating photovoltaic plant in a tropical reservoir in Brazil. <i>Journal of Environmental Planning and Management</i> , 2020, 63, 2334-2356.	2.4	20
675	Photovoltaics, Including New Technologies (Thin Film) and a Discussion on Module Efficiency. , 2020, , 375-412.		6
676	Viability of a concentrated solar power system in a low sun belt prefecture. <i>Frontiers in Energy</i> , 2020, 14, 850-866.	1.2	9
677	Making India's power system clean: Retirement of expensive coal plants. <i>Energy Policy</i> , 2020, 139, 111305.	4.2	16
678	A screening method to quantify the economic viability of off-grid in-stream tidal energy deployment. <i>Renewable Energy</i> , 2020, 159, 610-622.	4.3	13

#	ARTICLE	IF	CITATIONS
679	Modeling and techno-economic analysis of a novel trans-critical carbon dioxide energy storage system based on life cycle cost method. <i>Journal of Energy Storage</i> , 2020, 28, 101273.	3.9	27
680	Simulating the efficient diffusion of photovoltaics in Bogotá: An urban metabolism approach. <i>Energy</i> , 2020, 195, 117048.	4.5	7
681	China's power transition under the global 1.5°C target: preliminary feasibility study and prospect. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15113-15129.	2.7	11
682	Can dispersed wind power take off in China: A technical & institutional economics analysis. <i>Journal of Cleaner Production</i> , 2020, 256, 120475.	4.6	16
683	Assessment of a hybrid system that uses small modular reactors (SMRs) to back up intermittent renewables and desalinate water. <i>Progress in Nuclear Energy</i> , 2020, 122, 103269.	1.3	7
684	Enhancement of wind speed using converging duct for cooling off-grid mast-mounted flat solar PV panels to improve its power generation. <i>IET Renewable Power Generation</i> , 2020, 14, 263-269.	1.7	7
685	Obstacles and comparative analysis in the advancement of photovoltaic power stations in India. <i>Sustainable Computing: Informatics and Systems</i> , 2020, 25, 100372.	1.6	8
686	Harnessing hierarchical architectures to trap light for efficient photoelectrochemical cells. <i>Energy and Environmental Science</i> , 2020, 13, 660-684.	15.6	43
687	Assessing the viability of battery energy storage systems coupled with photovoltaics under a pure self-consumption scheme. <i>Renewable Energy</i> , 2020, 152, 1302-1309.	4.3	51
688	What is the future policy for photovoltaic power applications in China? Lessons from the past. <i>Resources Policy</i> , 2020, 65, 101575.	4.2	27
689	Is it a good time to develop commercial photovoltaic systems on farmland? An American-style option with crop price risk. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 125, 109827.	8.2	12
690	Dynamic Reconfiguration Systems for PV Plant: Technical and Economic Analysis. <i>Energies</i> , 2020, 13, 2004.	1.6	7
691	Quantum Dot Optoelectronic Devices. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2020, , .	0.4	5
692	Evaluation of the optimal renewable electricity mix for Lampedusa island: The adoption of a technical and economical methodology. <i>Journal of Cleaner Production</i> , 2020, 263, 121404.	4.6	50
693	Benefit-based cost allocation for residentially distributed photovoltaic systems in China: A cooperative game theory approach. <i>Frontiers of Engineering Management</i> , 2021, 8, 271-283.	3.3	11
694	Comparative study on the economic feasibility of nanogrid and microgrid electrification: The case of Jeju Island, South Korea. <i>Energy and Environment</i> , 2021, 32, 168-188.	2.7	6
695	Performance of pole mounted flat photovoltaic panel under varying ambient parameters. <i>International Journal of Ambient Energy</i> , 2021, 42, 713-719.	1.4	1
696	Water splitting with screw pitched cylindrical electrode and Fe(OH) ₂ catalyst under 1.4 V. <i>Renewable Energy</i> , 2021, 165, 525-532.	4.3	5

#	ARTICLE	IF	CITATIONS
697	Assessing the financial sustainability of rural grid electrification pathway: A case study of India. Sustainable Production and Consumption, 2021, 25, 27-42.	5.7	10
698	Agro-industrial residue gasification feasibility in captive power plants: A South-Asian case study. Energy, 2021, 214, 118952.	4.5	22
699	Photovoltaic Smart Grids in the prosumers investment decisions: a real option model. Journal of Economic Dynamics and Control, 2021, 126, 103988.	0.9	16
700	Assessment of electricity generation from biogas in Benin from energy and economic viability perspectives. Renewable Energy, 2021, 163, 613-624.	4.3	32
701	Economics of seasonal photovoltaic soiling and cleaning optimization scenarios. Energy, 2021, 215, 119018.	4.5	48
702	Location and orientation based $\langle scp \rangle LCOE \langle /scp \rangle$: Simplified visual analysis and generalization of the leveled cost of electricity from storageless photovoltaic systems. International Journal of Energy Research, 2021, 45, 5649-5658.	2.2	7
703	Distributed energy cost recovery for a fragile utility: The case of "lectricit" du Liban. Utilities Policy, 2021, 68, 101138.	2.1	6
704	A review of the value of solar methodology with a case study of the U.S. VOS. Renewable and Sustainable Energy Reviews, 2021, 137, 110599.	8.2	20
705	Rice husk energy production in Brazil: An economic and energy extensive analysis. Journal of Cleaner Production, 2021, 290, 125188.	4.6	26
706	Solar energy harvesting with ferroelectric materials. , 2021, , 43-84.		4
707	Experimental investigations on the performance of solar photovoltaic system for different industrial weather conditions with dust accumulation. Materials Today: Proceedings, 2021, 46, 5262-5271.	0.9	0
708	Materials, performance, and system design for integrated solar flow batteries " A mini review. Applied Energy, 2021, 282, 116210.	5.1	25
709	An open-source modeling tool for multi-objective optimization of renewable nano/micro-off-grid power supply system: Influence of temporal resolution, simulation period, and location. Energy, 2021, 219, 119545.	4.5	14
710	Peer-to-peer trade and the economy of distributed PV in China. Journal of Cleaner Production, 2021, 280, 124500.	4.6	9
711	Conceptual Design and Rationale for a New Agrivoltaics Concept: Pasture-Raised Rabbits and Solar Farming. Journal of Cleaner Production, 2021, 282, 124476.	4.6	29
712	Project planning and control analysis for suburban photovoltaic alternative electric power supply in Southwestern Nigeria. African Journal of Science, Technology, Innovation and Development, 2021, 13, 31-49.	0.8	4
714	Economic, Energy, and Environmental Analysis of PV with Battery Storage for Italian Households. Electronics (Switzerland), 2021, 10, 146.	1.8	9
715	Optimization and Cost-Effectiveness Analysis Between Si-Based Monofacial and Bifacial Grid-Connected PV Systems. Springer Theses, 2021, , 51-81.	0.0	0

#	ARTICLE	IF	CITATIONS
716	Techno-Economic Efficiency Analysis of Various Operating Strategies for Micro-Hydro Storage Using a Pump as a Turbine. <i>Energies</i> , 2021, 14, 425.	1.6	11
717	Life-cycle-assessment based design of a standalone photovoltaic system: a case study using a theoretical and numerical approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	2
718	The economics of renewable energy power in China. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 1341-1351.	2.1	13
719	Levelized cost of offshore wind power in China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25614-25627.	2.7	19
720	Applying a Relationally and Socially Embedded Decision Framework to Solar Photovoltaic Adoption: A Conceptual Exploration. <i>Sustainability</i> , 2021, 13, 711.	1.6	9
721	Energy storage system design for large-scale solar PV in Malaysia: techno-economic analysis. <i>Renewables: Wind, Water, and Solar</i> , 2021, 8, .	2.5	16
722	Analysis of Financial Problems of Wind Farms in Poland. <i>Energies</i> , 2021, 14, 1239.	1.6	16
723	Performance and economic viability of the PV system in different climatic zones of Nigeria. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100987.	1.7	18
724	Streamlining sustainable design in building information modeling BIM-based PV design and analysis tools. <i>Architectural Science Review</i> , 0, , 1-11.	1.1	5
725	Mechanisms and challenges in financing renewable energy projects in sub-Saharan Africa: a Ghanaian perspective. <i>Journal of Financial Management of Property and Construction</i> , 2021, 26, 319-336.	0.9	13
726	4E analysis and multiple objective optimizations of a cascade waste heat recovery system for waste-to-energy plant. <i>Energy Conversion and Management</i> , 2021, 230, 113765.	4.4	24
727	Analysis of PV Self-Consumption in Educational and Office Buildings in Spain. <i>Sustainability</i> , 2021, 13, 1662.	1.6	6
728	Analysing the impact of various incentives on solar tariff in India. <i>International Journal of Sustainable Energy</i> , 2022, 41, 126-147.	1.3	1
729	Optimal peer-to-peer energy sharing between grid-connected prosumers with different demand profiles and renewable energy sources. <i>IET Smart Grid</i> , 2021, 4, 270-283.	1.5	4
730	Managing power system flexibility in India via coal plants. <i>Energy Policy</i> , 2021, 150, 112061.	4.2	10
731	A decision-making framework for scheme selection for sustainable hydropower development. <i>International Journal of Green Energy</i> , 2021, 18, 951-965.	2.1	2
732	Optimization of photovoltaic solar cell performance via the earth abundant Zn ₃ P ₂ back surface field. <i>Optik</i> , 2021, 229, 166235.	1.4	19
733	Heat generation and mitigation in silicon solar cells and modules. <i>Joule</i> , 2021, 5, 631-645.	11.7	38

#	ARTICLE	IF	CITATIONS
734	Microstructured ZnO-ZnS composite for earth-abundant photovoltaics: Elaboration, surface analysis and enhanced optical performances. <i>Solar Energy</i> , 2021, 218, 312-319.	2.9	14
735	Photovoltaic Farmsâ€™ Economic Efficiency of Investments in North-East Poland. <i>Energies</i> , 2021, 14, 2087.	1.6	23
736	Structural optimization of autonomous photovoltaic systems with storage battery replacements. <i>Energy Reports</i> , 2021, 7, 349-358.	2.5	13
737	Optimization of battery/supercapacitor-based photovoltaic household-prosumers providing self-consumption and frequency containment reserve as influenced by temporal data granularity. <i>Journal of Energy Storage</i> , 2021, 36, 102366.	3.9	19
738	Technical Challenges and Perspectives for the Commercialization of Solutionâ€™Processable Solar Cells. <i>Advanced Materials Technologies</i> , 2021, 6, .	3.0	60
739	Plummeting costs of renewables - Are energy scenarios lagging?. <i>Energy Strategy Reviews</i> , 2021, 35, 100636.	3.3	60
740	Energy and economic analysis for a desalination plant powered by municipal solid waste incineration and natural gas in Brazil. <i>Environment, Development and Sustainability</i> , 2022, 24, 1799-1826.	2.7	5
741	On large action space in EV charging scheduling optimization. <i>Science China Information Sciences</i> , 2022, 65, 1.	2.7	11
742	Electric vehicle charging potential from retail parking lot solar photovoltaic awnings. <i>Renewable Energy</i> , 2021, 169, 608-617.	4.3	46
743	Development of the business feasibility evaluation model for a profitable P2P electricity trading by estimating the optimal trading price. <i>Journal of Cleaner Production</i> , 2021, 295, 126138.	4.6	20
744	Membrane-less microbial fuel cell: Monte Carlo simulation and sensitivity analysis for COD removal in dewatered sludge. <i>AIP Advances</i> , 2021, 11, .	0.6	5
745	CH ₃ NH ₃ PbI ₃ Perovskite/Silver Nanowire Complex with Higher Absorption and Stability. <i>Journal of Electronic Materials</i> , 2021, 50, 5177.	1.0	4
746	Setting Thresholds to Define Indifferences and Preferences in PROMETHEE for Life Cycle Sustainability Assessment of European Hydrogen Production. <i>Sustainability</i> , 2021, 13, 7009.	1.6	13
747	Feasibility analysis of implementing PV street lighting system in an arid region. <i>International Journal of Sustainable Energy</i> , 2022, 41, 360-381.	1.3	3
748	High thermoelectric figure of merit of porous Si nanowires from 300 to 700â€™K. <i>Nature Communications</i> , 2021, 12, 3926.	5.8	26
749	Impact of demand response on escalating energy access with affordable solar photovoltaic generation in the Global South. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110884.	8.2	5
750	Towards Scalable Economic Photovoltaic Potential Analysis Using Aerial Images and Deep Learning. <i>Energies</i> , 2021, 14, 3800.	1.6	21
751	Energy, exergy, and economic analysis of an off-grid solar polygeneration system. <i>Energy Conversion and Management</i> , 2021, 238, 114177.	4.4	15

#	ARTICLE	IF	CITATIONS
752	Review of geographic information systems-based rooftop solar photovoltaic potential estimation approaches at urban scales. <i>Applied Energy</i> , 2021, 291, 116817.	5.1	83
753	Absorption enhancement in amorphous Si by introducing RF sputtered Ti intermediate layers for photovoltaic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 269, 115152.	1.7	3
754	Broadband emission of corner-sharing halometalate templated by benzyltrimethylammonium. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108622.	1.8	2
756	A Study of a DC/AC Conversion Structure for Photovoltaic System Connected to the Grid with Active and Reactive Power Control. <i>Complexity</i> , 2021, 2021, 1-11.	0.9	5
757	Installed capacity optimization of autonomous photovoltaic systems under energy service contracting. <i>Energy Conversion and Management</i> , 2021, 240, 114256.	4.4	7
758	Perspective of uncertainty and risk from the CVaR-LCOE approach: An analysis of the case of PV microgeneration in Minas Gerais, Brazil. <i>Energy</i> , 2021, 226, 120327.	4.5	20
759	Improvement of Stand-Alone Solar PV Systems in the Maputo Region by Adapting Necessary Parameters. <i>Energies</i> , 2021, 14, 4357.	1.6	2
760	Opportunities and Challenges in Solar Photovoltaic-Based Electric Vehicles Charging Stations: A Step Toward Smart Cities Development. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 507-516.	0.3	1
761	Microwave-Assisted Synthesized Gadolinium Doped Barium Strontium Titanate Nanostructures: Structural and Optical Properties for DSSC Applications. <i>Al-Ma'alla Al-Qawmiyyat Lil Dir'asat Al-Ta'addiyya Wa o.o Al-Idm'an</i> , 2021, 1, 71-82.		1
763	A Solar Photovoltaic Performance and Financial Modeling Solution for Grid-Connected Homes in Zambia. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-13.	1.4	2
764	Getting to India's electric vehicle targets cost-effectively: To subsidize or not, and how?. <i>Energy Policy</i> , 2021, 156, 112384.	4.2	15
765	Techno-economic assessment of titanium dioxide nanorod-based perovskite solar cells: From lab-scale to large-scale manufacturing. <i>Applied Energy</i> , 2021, 298, 117251.	5.1	5
766	The impact of demand-pull and technology-push policies on firms' knowledge search. <i>Technological Forecasting and Social Change</i> , 2021, 170, 120863.	6.2	11
767	Levelized cost of electricity for the deployment of solar photovoltaic plants: The region of Le ³ n (Spain) as case study. <i>Energy Reports</i> , 2021, 7, 199-203.	2.5	5
768	Optimization and performance enhancement of concentrating solar power in a hot and arid desert environment. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111411.	8.2	0
769	Blinded by the sun: The role of prosumers as niche actors in incumbent firms' adoption of solar power during sustainability transitions. <i>Research Policy</i> , 2021, 50, 104253.	3.3	9
770	Economic feasibility study of ocean wave electricity generation in Brazil. <i>Renewable Energy</i> , 2021, 178, 1279-1290.	4.3	13
771	Research landscape and hot topics of rooftop PV: A bibliometric and network analysis. <i>Energy and Buildings</i> , 2021, 251, 111333.	3.1	17

#	ARTICLE	IF	CITATIONS
772	A comparative study between racking systems for photovoltaic power systems. Renewable Energy, 2021, 180, 424-437.	4.3	14
773	Are renewable energy technologies cost competitive for electricity generation?. Renewable Energy, 2021, 180, 658-672.	4.3	79
774	Electric energy generation from biogas derived from municipal solid waste using two systems: landfills and anaerobic digesters in the states of São Paulo and Minas Gerais, Brazil. Sustainable Energy Technologies and Assessments, 2021, 48, 101552.	1.7	7
775	The optimal share of PV and CSP for highly renewable power systems in the GCC region. Renewable Energy, 2021, 179, 1990-2003.	4.3	15
776	Back contact buffer layer of WO ₃ nanosheets in thin-film CdTe solar cell. Journal of Alloys and Compounds, 2021, 887, 161367.	2.8	17
777	Solar pavements: A critical review. Renewable and Sustainable Energy Reviews, 2021, 152, 111712.	8.2	27
778	Techno-economic performance evaluation among different solar photovoltaic system configurations. , 2021, , 301-319.		1
779	Solar Energy Pricing. Energy Systems in Electrical Engineering, 2021, , 217-229.	0.5	0
780	Novel optimization algorithm for the power and energy management and component sizing applied to hybrid storage-based photovoltaic household-prosumers for the provision of complementarity services. Journal of Power Sources, 2021, 482, 228918.	4.0	15
781	Business Development and Environmental Impact in the Solar (PV) Field. , 2021, , 1475-1504.		0
782	Renewable and Conventional Electricity Generation Systems: Technologies and Diversity of Energy Systems. Lecture Notes in Energy, 2013, , 9-30.	0.2	18
784	Distributed Generation for Access to Electricity: "Off-Main-Grid" Systems from Home-Based to Microgrid. , 2013, , 75-97.		7
785	Pinch Analysis for Economic Appraisal of Sustainable Projects. Process Integration and Optimization for Sustainability, 2020, 4, 171-182.	1.4	11
786	Methodology for calculating the lifetime of storage batteries in autonomous energy systems with renewable power generation. Energy Reports, 2020, 6, 15-24.	2.5	11
787	Economic potential of PV for Italian residential end-users. Energy, 2020, 200, 117508.	4.5	30
788	Act locally, transition globally: Grassroots resilience, local politics, and five municipalities in the United States with 100% renewable electricity. Energy Research and Social Science, 2020, 67, 101579.	3.0	31
789	Technical and economic assessment of fixed, single and dual-axis tracking PV panels in low latitude countries. Renewable Energy, 2017, 113, 563-579.	4.3	105
790	Optimization study of solar farm layout for concentrator photovoltaic system on azimuth-elevation sun-tracker. Solar Energy, 2020, 204, 726-737.	2.9	7

#	ARTICLE	IF	CITATIONS
791	Contribution to sustainable and environmental friendly non-toxic CZTS solar cell with an innovative hybrid buffer layer. <i>Solar Energy</i> , 2020, 204, 748-760.	2.9	57
792	On the levelised cost of energy of solar photovoltaics. <i>International Journal of Sustainable Energy</i> , 2021, 40, 755-780.	1.3	8
793	Photovoltaic Technologies: History, Advances, and Characterization. , 2014, , 1397-1424.		2
794	Are Renewable Energy Technologies Competitive?. , 2020, , .		2
795	A Comprehensive Overview of Electric Vehicle Charging using Renewable Energy. <i>International Journal of Power Electronics and Drive Systems</i> , 2016, 7, 114.	0.5	27
796	Mobile Open-Source Solar-Powered 3-D Printers for Distributed Manufacturing in Off-Grid Communities. <i>Challenges in Sustainability</i> , 2014, 2, 18-27.	0.1	44
797	THE POTENTIAL FOR DISRUPTIVE INNOVATIONS IN NUCLEAR POWER. <i>AECL Nuclear Review</i> , 2014, 3, 67-81.	0.1	1
798	Wind and solar energy: a comparison of costs and environmental impacts. <i>Advances in Energy Research</i> , 2016, 4, 121-146.	0.4	3
799	Scalable honeycomb top contact to increase the light absorption and reduce the series resistance of thin film solar cells. <i>Optical Materials Express</i> , 2019, 9, 256.	1.6	8
800	Renewable Energy Policies and Programs in Nunavut: Perspectives from the Federal and Territorial Governments. <i>Arctic</i> , 2012, 65, .	0.2	13
801	Community Voices: Perspectives on Renewable Energy in Nunavut. <i>Arctic</i> , 2013, 66, .	0.2	17
802	Plasmon-enhanced organic and perovskite solar cells with metal nanoparticles. <i>Nanophotonics</i> , 2020, 9, 3111-3133.	2.9	52
803	Systematic review elucidating the generations and classifications of solar cells contributing towards environmental sustainability integration. <i>Reviews in Inorganic Chemistry</i> , 2021, 41, 21-39.	1.8	20
804	Scenarios of photovoltaic grid parity in Colombia. <i>DYNA (Colombia)</i> , 2014, 81, 237-245.	0.2	12
805	A literature review on the potential of renewable electricity sources for mining operations in South Africa. <i>Journal of Energy in Southern Africa</i> , 2016, 27, 1-21.	0.5	20
806	Researches on Anti-reflection Coating (ARC) Methods Used in PV Systems. <i>Balkan Journal of Electrical and Computer Engineering</i> , 2018, 6, 42-46.	0.4	4
807	Innovation in the Energy Sector. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
808	Investing in Photovoltaics: Timing, Plant Sizing and Smart Grids Flexibility. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1

#	ARTICLE	IF	CITATIONS
809	A Review of Greenhouse Gas Emission Liabilities as the Value of Renewable Energy for Mitigating Lawsuits for Climate Change Related Damages. SSRN Electronic Journal, 0, , .	0.4	1
811	Influence of Automated Maneuvers on the Economic Feasibility of Tidal Energy Farms. Sustainability, 2019, 11, 5965.	1.6	6
812	Identification and Analysis of Impact Factors on the Economic Feasibility of Photovoltaic Energy Investments. Sustainability, 2020, 12, 7173.	1.6	21
813	Sensitivity Analysis of a Standalone Photovoltaic System Model Parameters. Journal of Applied Sciences, 2013, 13, 220-231.	0.1	6
814	Viability of a Utility-Scale Grid-Connected Photovoltaic Power Plant in the Middle East. Journal of Applied Sciences, 2015, 15, 1278-1287.	0.1	5
815	Economic and regulatory feasibility of solar PV in the Austrian multi-apartment housing sector. AIMS Energy, 2018, 6, 810-831.	1.1	10
816	Generation expansion planning considering renewable energy integration and optimal unit commitment: A case study of Afghanistan. AIMS Energy, 2019, 7, 441-464.	1.1	10
817	Cost Optimization of Hybrid Solar, Micro-Hydro and Hydrogen Fuel Cell Using Homer Software. Energy and Power Engineering, 2015, 07, 337-347.	0.5	11
818	Design and Performance of Photovoltaic Water Pumping Systems: Comprehensive Review towards a Renewable Strategy for Mozambique. Journal of Power and Energy Engineering, 2018, 06, 32-63.	0.3	18
819	A Modified Perturb and Observe Sliding Mode Maximum Power Point Tracking Method for Photovoltaic System uUnder Partially Shaded Conditions. International Journal of Fuzzy Logic and Intelligent Systems, 2016, 16, 281-292.	0.6	2
820	Grid Parity of Solar Energy: Imminent Fact or Futureâ€™s Fiction?. Energy Journal, 2016, 37, 263-276.	0.9	7
821	Designing Compensation for Distributed Solar Generation: Is Net Metering Ever Optimal?. Energy Journal, 2017, 38, 1-32.	0.9	58
822	A Study on the Incentive-based Strategies for Utilization of Thermoelectric Power Plant Hot Waste Water: Focusing on the Analysis of Levelized Cost of Energy(LCOE). Journal of Energy Engineering, 2016, 25, 29-42.	0.2	3
824	Energy exchange among heterogeneous prosumers under price uncertainty. SSRN Electronic Journal, 0, , .	0.4	0
826	Solar Photovoltaics. , 2021, , 60-71.		0
827	Policy Frameworks and Institutions for Decarbonisation: The Energy Sector as â€™Litmus Testâ€™. , 2021, , 7-38.		0
829	Decarbonisation Strategies and Economic Opportunities in Australia. , 2021, , 203-236.		0
831	Hydropower. , 2021, , 125-138.		0

#	ARTICLE	IF	CITATIONS
832	Transitioning to a Prosperous, Resilient and Carbon-Free Economy. , 2021, , .		1
836	Financing the Transition. , 2021, , 621-645.		0
838	Forests. , 2021, , 462-500.		0
840	Solar Thermal Energy. , 2021, , 72-104.		1
841	Improving the Governance of Governments. , 2021, , 591-620.		2
842	Trade and Climate Change. , 2021, , 571-590.		1
846	Industry and Manufacturing. , 2021, , 408-438.		0
850	Buildings and Precincts. , 2021, , 301-337.		0
853	Land Use. , 2021, , 441-461.		0
854	Social Movements for Change. , 2021, , 646-667.		0
855	Decarbonisation Strategies and Economic Opportunities in Indonesia. , 2021, , 237-268.		0
856	Mining, Metals, Oil and Gas. , 2021, , 529-568.		0
857	The Hydrogen Economy. , 2021, , 173-200.		0
858	National Climate Change Adaptation Case Study: Early Adaptation to Climate Change through Climate-Compatible Development and Adaptation Pathways. , 2021, , 365-388.		1
859	Urban Water. , 2021, , 338-364.		0
860	The total social cost evaluation of two wind and PV energy development modes: A study on Henan of China. Energy Reports, 2021, 7, 6565-6580.	2.5	15
861	Levelised cost of energy analysis for offshore wind farms â€œ A case study of the New York State development. Ocean Engineering, 2021, 239, 109923.	1.9	20
862	Decarbonisation of seaports: A review and directions for future research. Energy Strategy Reviews, 2021, 38, 100727.	3.3	21

#	ARTICLE	IF	CITATIONS
864	The Economics of Renewable Energy. SSRN Electronic Journal, 0, , .	0.4	0
865	Economics of Photovoltaic Power Generation -Critical Conditions for Prevalence. Journal of the Japan Institute of Marine Engineering, 2012, 47, 529-534.	0.0	0
866	Femtosecond Laser Micro-machining for Energy Applications. , 2013, , .		0
867	Reallocating Risks and Returns to Overcome Barriers to Scale Up of Distributed Electricity Resources. SSRN Electronic Journal, 0, , .	0.4	0
868	Cost Benefit Analysis for the Renewable Installation in Inter-Intelligent Renewable Energy Network. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 1925-1933.	0.1	0
869	Basic Physical Processes and Economics. , 2014, , 1-50.		0
870	Offshore Wind in South Carolina: An Estimate of Impacts on the Regional Economy and Electrical Rates. Engineering & Technology Reference, 2015, , .	0.1	0
871	Homebuyersâ€™ preference for installed PV systems â€“ Discrete choice experiment. , 2015, , .		0
872	A Probabilistic Approach to the Computation of the Levelized Cost of Electricity. SSRN Electronic Journal, 0, , .	0.4	0
873	Emerging Economic Viability of Grid Defection in a Northern Climate Using Solar Hybrid Systems. SSRN Electronic Journal, 0, , .	0.4	0
875	On the Determination of Levelized Cost of Electricity of Wind Energy in the Coastal Areas of Bangladesh. Journal Electrical and Electronic Engineering, 2017, 5, 74.	0.7	0
876	The Photovoltaic Installation Application in the Public Utility Building. Ecological Chemistry and Engineering S, 2017, 24, 517-538.	0.3	3
877	Decarbonizing the Boardroom? Aligning Electric Utility Executive Compensation With Climate Change Incentives. SSRN Electronic Journal, 0, , .	0.4	0
878	Electricity Crisis of Bangladesh and A New Low Cost Electricity Production System to Overcome this Crisis. International Journal of Scientific and Research Publications, 2018, 8, .	0.0	1
879	PV/T Feasibility and Cost Assessment. , 2019, , 153-171.		0
880	Hedging Effect of Low-Quality Capital Assets in Competitive Industries. SSRN Electronic Journal, 0, , .	0.4	0
881	Recent Progress in Graphene Research for the Solar Cell Application. Carbon Nanostructures, 2019, , 81-111.	0.1	1
882	Solar Panel Temperature Control System Using IoT. , 2019, , 165-278.		0

#	ARTICLE	IF	CITATIONS
884	Viability of Airborne Wind Energy in the United Kingdom. Journal of Thermal Science and Engineering Applications, 2020, 12, .	0.8	2
885	Quantum Dot-Based Thin-Film III-V Solar Cells. Lecture Notes in Nanoscale Science and Technology, 2020, , 1-48.	0.4	2
886	When and Where to Track: A Worldwide Comparison of Single-axis Tracking vs. Fixed Tilt Bifacial Farms. , 2020, , .		3
887	Energy exchange among heterogeneous prosumers under price uncertainty. Energy Economics, 2021, 104, 105647.	5.6	9
888	A techno-economic sizing method for PV/battery/grid hybrid solar systems for residential buildings. Journal of Mechanical Science and Technology, 2021, 35, 5245-5254.	0.7	3
889	Strategies to Facilitate Photovoltaic Applications in Road Structures for Energy Harvesting. Energies, 2021, 14, 7097.	1.6	7
890	Economic viability of rooftop photovoltaic systems in the middle east and northern African countries. Energy Reports, 2020, 6, 376-380.	2.5	7
891	Determining the optimal trading price of electricity for energy consumers and prosumers. Renewable and Sustainable Energy Reviews, 2022, 154, 111851.	8.2	13
892	Fault Detection and Identification for Maintenance Management. Advances in Intelligent Systems and Computing, 2020, , 460-469.	0.5	1
893	Techno-Enviro-Economic Feasibility of CdTe and Micromorph-Based Thin-Film PV Systems. Springer Proceedings in Energy, 2020, , 663-673.	0.2	0
894	The economic potential of grid defection of energy prosumer households in Germany. Advances in Applied Energy, 2021, 4, 100075.	6.6	16
895	Estimation of system efficiency and utilisation factor of a mirror integrated solar PV system. IET Renewable Power Generation, 2020, 14, 1677-1687.	1.7	5
896	Business Development and Environmental Impact in the Solar (PV) Field. Advances in Business Strategy and Competitive Advantage Book Series, 0, , 44-84.	0.2	0
897	Wind and Photovoltaic Energy Availability and Its Cost Estimation for Tangier Region. Advances in Intelligent Systems and Computing, 2019, , 54-61.	0.5	0
898	Research on the Economic Benefits of Roof Photovoltaic Based on the Non-Subsidy Mode of Environmental Benefits. Journal of Physics: Conference Series, 2020, 1659, 012033.	0.3	0
900	Renewable energy sources and storage batteries for electrification of Russian decentralized power supply systems. Journal of Physics: Conference Series, 2021, 2061, 012016.	0.3	1
901	CH ₃ NH ₃ PbI ₃ Perovskite with Enhanced Absorption and Stability Using Silver Nanowires and the Anatase Structure of TiO ₂ Nanowires. Journal of Electronic Materials, 2022, 51, 778-784.	1.0	1
902	Techno-economic analysis of waste-heat conversion. Joule, 2021, 5, 3080-3096.	11.7	21

#	ARTICLE	IF	CITATIONS
903	Review on viability and implementation of residential PV-battery systems: Considering the case of Dominican Republic. Energy Reports, 2021, 7, 8868-8899.	2.5	14
904	A Review of Renewable Energy Supply and Energy Efficiency Technologies. SSRN Electronic Journal, 0, , .	0.4	55
905	Marketing Strategies to Use Solar Energy in Homes. Open Journal of Business and Management, 2021, 09, 2950-2976.	0.3	1
906	Roadmap to Profitability for a Speed-Controlled Micro-Hydro Storage System Using Pumps as Turbines. Sustainability, 2022, 14, 653.	1.6	5
907	Valuing investments in domestic PV-Battery Systems under uncertainty. Energy Economics, 2022, 106, 105721.	5.6	9
908	Analysis of data errors in the solar photovoltaic monitoring system database: An overview of nationwide power plants in Korea. Renewable and Sustainable Energy Reviews, 2022, 156, 112007.	8.2	7
909	At scale adoption of battery storage technology in Indian power industry: Enablers, frameworks and policies. Technological Forecasting and Social Change, 2022, 176, 121467.	6.2	8
910	Levelized Cost of Energy Calculations for Microgrid-Integrated Solar-Storage Technology. , 2020, , .		4
911	LCOE Design Optimization Using Genetic Algorithm with Improved Component Models for Medium-Voltage Transformerless PV Inverters. , 2020, , .		2
912	The efficacy of a dual-axis solar tracking device in tropical climate. Research, Society and Development, 2020, 9, e1029119637.	0.0	1
913	Energy Potential of Anaerobically Codigested MSW and Organic Sludge Fractions from a Sewage Treatment Plant in Extrema, MG, Brazil. SSRN Electronic Journal, 0, , .	0.4	0
914	Oxide free materials for perovskite solar cells. , 2022, , 287-306.		2
917	Solar and water: high-technology readiness technologies. , 2022, , 67-117.		0
918	Adaptable scheduling of smart building communities with thermal mapping and demand flexibility. Applied Energy, 2022, 310, 118445.	5.1	8
919	Optimal Inverter and Wire Selection for Solar Photovoltaic Small-Scale Fencing Applications. SSRN Electronic Journal, 0, , .	0.4	0
920	Levelized Cost of Energy-Oriented Modular String Inverter Design Optimization for PV Generation System Using Geometric Programming. IEEE Access, 2022, 10, 27561-27578.	2.6	8
924	Feasibility analysis of solar PV/biogas hybrid energy system for rural electrification in Ghana. Cogent Engineering, 2022, 9, .	1.1	20
926	Organic Photovoltaicsâ€™ New Renaissance: Advances Toward Roll-to-Roll Manufacturing of Non-Fullerene Acceptor Organic Photovoltaics. Advanced Materials Technologies, 2022, 7, .	3.0	32

#	ARTICLE	IF	CITATIONS
927	Levelized Cost of Electricity Generation by Small Hydropower Projects under Clean Development Mechanism in India. <i>Energies</i> , 2022, 15, 1473.	1.6	6
928	Gera��o de energia usando biog�s de aterros sanit�rios no Brasil: um estudo de potencial energ�tico e viabilidade econ�mica em fun�o da popula�o. <i>Engenharia Sanitaria E Ambiental</i> , 2022, 27, 67-77.	0.1	2
929	An Economic Approach to Size of a Renewable Energy Mix in Small Islands. <i>Energies</i> , 2022, 15, 2005.	1.6	13
930	Prototyping Roof Mounts for Photovoltaic (PV) Panels: Design, Construction and CFD Validation. <i>Nigerian Journal of Basic and Medical Science</i> , 2022, 14, 59-71.	0.3	1
931	The Impact of Electrical Energy Consumption on the Payback Period of a Rooftop Grid-Connected Photovoltaic System: A case Study from Vietnam. <i>International Journal of Renewable Energy Development</i> , 2022, 11, 581-589.	1.2	2
932	A Note on Limits and Trends in PV Cells and Modules. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3363.	1.3	6
933	Efficiency improvement of CIGS solar cells using RF sputtered TCO/Ag/TCO thin-film as prospective buffer layer. <i>Ceramics International</i> , 2022, 48, 20194-20200.	2.3	17
934	Energy and economic evaluation of MSW incineration and gasification in Brazil. <i>Renewable Energy</i> , 2022, 188, 933-944.	4.3	18
935	A methodology for an optimal design of ground-mounted photovoltaic power plants. <i>Applied Energy</i> , 2022, 314, 118881.	5.1	16
936	Economical Validation of Residential Solar Power Investment: A Cost-Benefit Analysis Approach. <i>Journal of Management in Engineering - ASCE</i> , 2022, 38, .	2.6	2
937	A Novel PV based ANN Optimized Converter for off grids Locomotives. , 2021, , .		7
938	Political-Optimizer-Based Energy-Management System for Microgrids. <i>Electronics (Switzerland)</i> , 2021, 10, 3119.	1.8	6
939	Life cycle optimization for hydrogen supply chain network design. <i>International Journal of Hydrogen Energy</i> , 2024, 52, 491-520.	3.8	5
947	Impacts of Location on Designs and Economics of DIY Low-Cost Fixed-Tilt Open Source Wood Solar Photovoltaic Racking. <i>Designs</i> , 2022, 6, 41.	1.3	15
948	Economic Viability of Rooftop Photovoltaic Systems and Energy Storage Systems in Qatar. <i>Energies</i> , 2022, 15, 3040.	1.6	6
949	A model to determine soiling, shading and thermal losses from PV yield data. <i>Clean Energy</i> , 2022, 6, 372-391.	1.5	4
950	Monofacial vs bifacial solar photovoltaic systems in snowy environments. <i>Renewable Energy</i> , 2022, 193, 657-668.	4.3	14
951	P50/P90 Analysis of a Solar Photovoltaic Plant in METU NCC Using the Empirical Method. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
952	Simulation analysis of single solar floating photovoltaic panel structure based on wind direction change. MATEC Web of Conferences, 2022, 358, 01020.	0.1	1
953	A Panel Data Approach towards the Effectiveness of Energy Policies in Fostering the Implementation of Solar Photovoltaic Technology: Empirical Evidence for Asia-Pacific. Energies, 2022, 15, 3775.	1.6	2
954	The cost of photovoltaics: Re-evaluating grid parity for PV systems in China. Renewable Energy, 2022, 194, 469-481.	4.3	15
955	Impact of demand flexibility and tiered resilience on solar photovoltaic adoption in humanitarian settlements. Renewable Energy, 2022, 193, 895-912.	4.3	6
956	Effect of Fe doping on the structural and optical properties of ZnS macro-spheres. Optik, 2022, 262, 169342.	1.4	8
957	Determining the Production and Transport Cost for H2 on a Global Scale. Frontiers in Energy Research, 0, 10, .	1.2	11
958	No Sun: Three Sunlight-Killing Scenarios. , 2015, , 17-24.		0
959	Practical Matters: Energy, Water, Nutrition, Taste, Biodiversity, & Cooperation. , 2015, , 87-102.		0
961	Counter electrodes for perovskite solar cells: materials, interfaces and device stability. Journal of Materials Chemistry C, 2022, 10, 10775-10798.	2.7	10
963	Open-Source Design and Economics of Manual Variable-Tilt Angle DIY Wood-Based Solar Photovoltaic Racking System. Designs, 2022, 6, 54.	1.3	15
964	A theoretical study of molten carbonate fuel cell combined with a solar power plant and Cuâ€“Cl thermochemical cycle based on techno-economic analysis. International Journal of Hydrogen Energy, 2022, 47, 22680-22690.	3.8	7
965	Modeling and Experimental Studies on Water Spray Cooler for Commercial Photovoltaic Modules. International Journal of Renewable Energy Development, 2022, 11, 926-935.	1.2	1
966	On the regulation of solar distributed generation in Brazil: A look at both sides. Energy Policy, 2022, 167, 113091.	4.2	10
967	Comparative analysis of solar - battery storage sizing in net metering and zero export systems. Energy for Sustainable Development, 2022, 69, 41-50.	2.0	14
968	An environmental and economic sustainability assessment of a pressure retarded osmosis system. Desalination, 2022, 537, 115869.	4.0	9
969	Net-metering and net-billing in photovoltaic self-consumption: The cases of Ecuador and Spain. Sustainable Energy Technologies and Assessments, 2022, 53, 102434.	1.7	7
970	Sensitivity of Active Distribution Network Flexibility to Energy Storage System Capacity. , 2022, , .		0
971	Feasibility Assessment of Bifacial Rooftop Photovoltaic Systems in the State of Gujarat in India. Frontiers in Energy Research, 0, 10, .	1.2	5

#	ARTICLE	IF	CITATIONS
972	Cost of green hydrogen: Limitations of production from a stand-alone photovoltaic system. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 11885-11898.	3.8	23
973	Case study of photovoltaic power plants in a model of sustainable university in Brazil. <i>Renewable Energy</i> , 2022, 196, 247-260.	4.3	7
974	Optimal inverter and wire selection for solar photovoltaic fencing applications. <i>Renewable Energy Focus</i> , 2022, 42, 115-128.	2.2	6
975	A PV ramp-rate control strategy to extend battery lifespan using forecasting. <i>Applied Energy</i> , 2022, 323, 119546.	5.1	7
976	Techno-economic feasibility of a remote PV mini-grid electrification system for five localities in Chad. <i>International Journal of Sustainable Engineering</i> , 2022, 15, 177-191.	1.9	5
977	Photovoltaic modules degradation assessment using different statistical techniques. <i>International Journal of Energy Research</i> , 2022, 46, 16593-16607.	2.2	4
978	Geospatial assessment of elevated agrivoltaics on arable land in Europe to highlight the implications on design, land use and economic level. <i>Energy Reports</i> , 2022, 8, 8736-8751.	2.5	22
979	SWOT Analysis of Feed-in Tariff Policy in Indonesia. , 2022, , .		1
980	Electrification of Rural Remote Areas Using Renewable Energy Sources: Literature Review. <i>Energies</i> , 2022, 15, 5881.	1.6	3
981	Optimal Planning of a Photovoltaic-Based Grid-Connected Electric Vehicle Charging System Using Teachingâ€“Learning-Based Optimization (TLBO). , 0, , .		1
982	A Review of the Effects of Haze on Solar Photovoltaic Performance. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112796.	8.2	6
983	Life-cycle economic assessment for establishing the optimal government solar subsidy program in South Korea. <i>Energy and Buildings</i> , 2022, 272, 112342.	3.1	7
984	Economic performance of off-grid photovoltaic systems for irrigation. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2023, 27, 57-63.	0.4	1
985	Evaluation of the Economic Potential of Photovoltaic Power Generation in Road Spaces. <i>Energies</i> , 2022, 15, 6408.	1.6	4
986	Towards market commercialization: Lifecycle economic and environmental evaluation of scalable perovskite solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2023, 31, 180-194.	4.4	8
987	Life cycle cost analysis of solar energy via environmental externality monetization. <i>Science of the Total Environment</i> , 2023, 856, 158910.	3.9	4
988	Elaboration of Graded Band-Gap a-SiC Thin-Film Using RF Magnetron Sputtering Technique. , 2022, , .		0
989	A method to estimate optimal renovation period of solar photovoltaic modules. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 2865-2880.	2.1	4

#	ARTICLE	IF	CITATIONS
990	The Design Value for Recycling End-of-Life Photovoltaic Panels. Applied Sciences (Switzerland), 2022, 12, 9092.	1.3	11
991	Potential-induced degradation in perovskite/silicon tandem photovoltaic modules. Cell Reports Physical Science, 2022, 3, 101026.	2.8	17
992	Techno-economic assessment of soiling losses in CSP and PV solar power plants: A case study for the semi-arid climate of Morocco. Energy Conversion and Management, 2022, 270, 116285.	4.4	16
993	A holistic review approach of design considerations, modelling, challenges and future applications for bifacial photovoltaics. Energy Conversion and Management, 2022, 271, 116290.	4.4	10
994	Prospects of renewable energy in Russia. Interexpo GEO-Siberia, 2022, 2, 106-112.	0.0	0
995	Policy and Strategies of Tariff Incentives Related to Renewable Energy: Comparison between Indonesia and Other Developing and Developed Countries. Sustainability, 2022, 14, 13442.	1.6	2
996	Sustainability assessment of alternative energy power generation pathways through the development of impact indicators for water, land, GHG emissions, and cost. Renewable and Sustainable Energy Reviews, 2023, 171, 113030.	8.2	5
997	Distributed local energy: Assessing the determinants of domestic-scale solar photovoltaic uptake at the local level across England and Wales. Renewable and Sustainable Energy Reviews, 2023, 171, 113036.	8.2	8
998	A Prefeasibility Solar Photovoltaic Tool for Tropical Small Island Developing States. Energies, 2022, 15, 8337.	1.6	2
999	Assessment of electricity generation potential and economic analysis through different municipal solid waste management scenarios: a case study. Biomass Conversion and Biorefinery, 0, , .	2.9	1
1000	On current technology for light absorber materials used in highly efficient industrial solar cells. Renewable and Sustainable Energy Reviews, 2023, 173, 113027.	8.2	9
1001	Fuzzy incorporated Blackâ€™Litterman model for renewable energy portfolio optimization. Electrical Engineering, 2022, 104, 4279-4288.	1.2	0
1002	Environmental and Economic Impact Assessments of a Photovoltaic Rooftop System in the United Arab Emirates. Energies, 2022, 15, 8765.	1.6	3
1003	\hat{I}^2 -Ni(OH) ₂ mediated redox catalysis for efficient hydrogen generation by reducing accumulation of bubbles in water splitting. International Journal of Hydrogen Energy, 2022, , .	3.8	0
1004	Energy Potential of Anaerobically Codigested MSW and Organic Sludge Fractions from a Sewage Treatment Plant in Extrema, MG, Brazil. Waste and Biomass Valorization, 0, , .	1.8	0
1005	Characterization of Zinc Oxide Semiconductor Thin Film Treated with Cold Plasma. Key Engineering Materials, 0, 936, 93-103.	0.4	0
1006	A Complete and High-Resolution Estimate of Sardiniaâ€™s Rooftop Photovoltaic Potential. Applied Sciences (Switzerland), 2023, 13, 7.	1.3	3
1007	High-throughput identification of materials for silicon tandem solar cells. Sustainable Energy and Fuels, 0, , .	2.5	0

#	ARTICLE	IF	CITATIONS
1008	Investigating the impact of variable energy prices and renewable generation on the annualized cost of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 13756-13766.	3.8	17
1009	Machine learning applications for urban photovoltaic potential estimation: A survey. <i>Neurocomputing</i> , 2023, 526, 80-95.	3.5	1
1010	Microgrid energy management using metaheuristic optimization algorithms. <i>Applied Soft Computing Journal</i> , 2023, 134, 109981.	4.1	15
1011	Techno-economic comparative analysis of solar thermal collectors and high-temperature heat pumps for industrial steam generation. <i>Energy Conversion and Management</i> , 2023, 277, 116623.	4.4	19
1012	Recent technical approaches for improving energy efficiency and sustainability of PV and PV-T systems: A comprehensive review. <i>Sustainable Energy Technologies and Assessments</i> , 2023, 56, 103026.	1.7	11
1013	A novel domino-like snow removal system for roof PV arrays: Feasibility, performance, and economic benefits. <i>Applied Energy</i> , 2023, 333, 120554.	5.1	1
1014	A combined assessment of the energy, economic and environmental performance of a photovoltaic system in the Italian context. <i>Science of the Total Environment</i> , 2023, 866, 161329.	3.9	4
1015	Sizing of Small Hydropower Plants for Highly Variable Flows in Tropical Run-of-River Installations: A Case Study of the Sebeya River. <i>Energies</i> , 2023, 16, 1304.	1.6	0
1016	Thermo-economic optimization of an enhanced geothermal system (EGS) based on machine learning and differential evolution algorithms. <i>Fuel</i> , 2023, 340, 127569.	3.4	12
1017	Techno-economic assessment of Solar Photovoltaic Plants. , 2022, , .		0
1018	Economics of Open-Source Solar Photovoltaic Powered Cryptocurrency Mining. <i>Ledger</i> , 0, 8, .	0.0	3
1019	The controlled incineration process as an alternative to handle MSW and generate electric energy in the state of Guanajuato, Mexico. <i>Energy and Climate Change</i> , 2023, 4, 100102.	2.2	0
1020	Evaluation of solar photovoltaic carport canopy with electric vehicle charging potential. <i>Scientific Reports</i> , 2023, 13, .	1.6	10
1021	Can grid-tied solar photovoltaics lead to residential heating electrification? A techno-economic case study in the midwestern U.S.. <i>Applied Energy</i> , 2023, 336, 120838.	5.1	7
1022	Open-Source Vertical Swinging Wood-Based Solar Photovoltaic Racking Systems. <i>Designs</i> , 2023, 7, 34.	1.3	7
1023	Performance analysis of polycrystalline floating photovoltaic array: The concept and prototype development for irrigation purpose. <i>Progress in Photovoltaics: Research and Applications</i> , 2023, 31, 738-749.	4.4	1
1024	A Review of the Levelized Cost of Wave Energy Based on a Techno-Economic Model. <i>Energies</i> , 2023, 16, 2144.	1.6	10
1025	Technoeconomic evaluation of insulated building integrated photovoltaic system as a building envelope. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	0

#	ARTICLE	IF	CITATIONS
1026	Techno-economic feasibility analysis of biogas-solar photovoltaic hybrid system for bioenergy generation: a case study in the municipality of Boa Esperança (Paraná, Brazil). <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	1
1027	Battery-hydrogen vs. flywheel-battery hybrid storage systems for renewable energy integration in mini-grid: A techno-economic comparison. <i>Journal of Energy Storage</i> , 2023, 63, 106968.	3.9	7
1028	Effects of Al ₂ O ₃ Thickness in Silicon Heterojunction Solar Cells. <i>Inorganics</i> , 2023, 11, 106.	1.2	1
1029	A Comprehensive Survey on the Current Trends in Improving the Renewable Energy Incorporated Global Power System Market. <i>IEEE Access</i> , 2023, 11, 24016-24038.	2.6	3
1030	Prospects and challenges for perovskite-organic tandem solar cells. <i>Joule</i> , 2023, 7, 484-502.	11.7	20
1031	The Role of Energy Performance Agreements in the Sustainable Development of Decentralized Energy Systems: Methodology for Determining the Equilibrium Conditions of the Contract. <i>Energies</i> , 2023, 16, 2564.	1.6	0
1032	Potential of Iron Oxides in Photovoltaic Technology. <i>Crystal Growth and Design</i> , 2023, 23, 3034-3055.	1.4	2
1033	Hydrogen and Electric Power Cogeneration in Novel Redox Chemical Looping Systems: Operational Schemes and Tech-Economic Impact. <i>Industrial & Engineering Chemistry Research</i> , 2023, 62, 5065-5082.	1.8	2
1034	Advances in solar thermoelectric and photovoltaic-thermoelectric hybrid systems for power generation. <i>Solar Energy</i> , 2023, 254, 195-212.	2.9	15
1035	New Solar Photovoltaics Trends Toward Sustainable Development Goals. , 2023, , 1-34.		0
1036	Highly efficient Cd-Free ZnMgO/CIGS solar cells via effective band-gap tuning strategy. <i>Journal of Computational Electronics</i> , 2023, 22, 887-896.	1.3	1
1037	Photovoltaic Solar Power Plant Maintenance Management Based on Statistical Analysis. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2023, , 414-418.	0.5	0
1038	A Cost-Benefit Analysis for Utility-Scale Agrivoltaic Implementation in Italy. <i>Energies</i> , 2023, 16, 2991.	1.6	1
1039	Aesthetically Appealing Building Integrated Photovoltaic Systems for Net-Zero Energy Buildings. Current Status, Challenges, and Future Developments—A Review. <i>Buildings</i> , 2023, 13, 863.	1.4	8
1041	A bibliometric review of grid parity, energy transition and electricity cost research for sustainable development. <i>Heliyon</i> , 2023, 9, e15532.	1.4	3
1042	Levelized cost estimates of solar photovoltaic electricity in the United Kingdom until 2035. <i>Patterns</i> , 2023, 4, 100735.	3.1	11
1043	Offshore Wind Turbine in China: Overview, Research Trends, and Challenges. , 2023, , .		0
1050	Advances in solar cell fabrication and applications using nanotechnology. , 2023, , 223-250.		0

#	ARTICLE	IF	CITATIONS
1054	Electric Vehicle Charger with Solar Backup. , 2023, , .		0
1061	3D Graphene for Photovoltaics. Carbon Nanostructures, 2023, , 305-320.	0.1	0
1068	New Solar Photovoltaics Trends Toward Sustainable Development Goals. , 2023, , 1205-1238.		0
1078	Techno-Economic Analysis of Municipal Solid Waste Gasification. Lecture Notes in Civil Engineering, 2024, , 225-232.	0.3	0
1079	Microgrid design optimization in Benin within the LEOPARD project: evaluating the impact of inaccurate load profile estimation. , 2023, , .		0
1091	Real-time Condition Monitoring and Diagnostic Solution for Utility-scale Inverters and Distribution Transformers. , 2023, , .		0
1093	The Effect of Potovoltaic Plant Penetration on Reducing Fuel Costs, Improving Energy Mix, Increasing Voltage and Reducing Grid Losses at Belitung System. , 2023, , .		0
1094	Numerical Investigation of a New Double-Absorber Lead-free Perovskite Solar Cell via SCAPS-1D. , 2023, , .		0
1096	Metal-Metal Oxide Based Nanocomposites for the Photovoltaic Applications. , 2023, , .		0
1097	Community Influence of Houses of Worship on Rooftop Solar Growth Rates. , 2023, , .		0
1098	Opportunities for Economic Efficiency Increase in Renewable Energy Powered Off-Grid Systems. , 2023, , .		0
1102	The Characterization of Deformable Photovoltaic Modules. , 0, , .		0
1103	Building Applied Photovoltaic Systems in Iran: Opportunities and Challenges. Innovative Renewable Energy, 2024, , 121-147.	0.2	0
1106	Design and Business Modelling of an IoT Based Cost-Efficient Solar Data Logger with Cellular Monitoring Interface for Decentralized Renewables. , 2023, , .		0
1109	Economic Research of Coal-Fired Power Plant Deep Peak Regulation Based on LCOE Model. , 2023, , .		0