Soteris A Kalogirou

List of Publications by Year
in descending order

227 papers	23,826 citations	10351 72 h-index	7718 150 g-index
238 all docs	238 docs citations	238 times ranked	16230 citing authors

#	Article	IF	Citations
1	Solar thermal collectors and applications. Progress in Energy and Combustion Science, 2004, 30, 231-295.	15.8	2,296
2	Machine learning methods for solar radiation forecasting: A review. Renewable Energy, 2017, 105, 569-582.	4.3	1,141
3	A review of the applications of nanofluids in solar energy. International Journal of Heat and Mass Transfer, 2013, 57, 582-594.	2.5	1,081
4	Artificial neural networks in renewable energy systems applications: a review. Renewable and Sustainable Energy Reviews, 2001, 5, 373-401.	8.2	915
5	Seawater desalination using renewable energy sources. Progress in Energy and Combustion Science, 2005, 31, 242-281.	15.8	858
6	Applications of artificial neural-networks for energy systems. Applied Energy, 2000, 67, 17-35.	5.1	769
7	Artificial intelligence techniques for photovoltaic applications: A review. Progress in Energy and Combustion Science, 2008, 34, 574-632.	15.8	668
8	Ground heat exchangers—A review of systems, models and applications. Renewable Energy, 2007, 32, 2461-2478.	4.3	580
9	The potential of solar industrial process heat applications. Applied Energy, 2003, 76, 337-361.	5.1	498
10	Artificial intelligence for the modeling and control of combustion processes: a review. Progress in Energy and Combustion Science, 2003, 29, 515-566.	15.8	493
11	Hybrid PV/T solar systems for domestic hot water and electricity production. Energy Conversion and Management, 2006, 47, 3368-3382.	4.4	426
12	Artificial intelligence techniques for sizing photovoltaic systems: A review. Renewable and Sustainable Energy Reviews, 2009, 13, 406-419.	8.2	416
13	Artificial neural networks for the prediction of the energy consumption of a passive solar building. Energy, 2000, 25, 479-491.	4.5	402
14	Photovoltaic thermal (PV/T) collectors: A review. Applied Thermal Engineering, 2007, 27, 275-286.	3.0	363
15	Infrared thermography (IRT) applications for building diagnostics: A review. Applied Energy, 2014, 134, 531-549.	5.1	357
16	Sustainable development using renewable energy technology. Renewable Energy, 2020, 146, 2430-2437.	4.3	351
17	Fault detection and diagnosis methods for photovoltaic systems: A review. Renewable and Sustainable Energy Reviews, 2018, 91, 1-17.	8.2	331
18	Design and construction of a LiBr–water absorption machine. Energy Conversion and Management, 2003, 44, 2483-2508.	4.4	329

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19	Energy storage for electricity generation and related processes: Technologies appraisal and grid scale applications. Renewable and Sustainable Energy Reviews, 2018, 94, 804-821.	8.2	314
20	Applications of artificial neural networks in energy systems. Energy Conversion and Management, 1999, 40, 1073-1087.	4.4	266
21	Use of TRNSYS for modelling and simulation of a hybrid pv–thermal solar system for Cyprus. Renewable Energy, 2001, 23, 247-260.	4.3	264
22	Thermal performance, economic and environmental life cycle analysis of thermosiphon solar water heaters. Solar Energy, 2009, 83, 39-48.	2.9	253
23	A detailed thermal model of a parabolic trough collector receiver. Energy, 2012, 48, 298-306.	4.5	245
24	Maximum power point tracking using a GA optimized fuzzy logic controller and its FPGA implementation. Solar Energy, 2011, 85, 265-277.	2.9	234
25	Application of infrared thermography for the determination of the overall heat transfer coefficient (U-Value) in building envelopes. Applied Energy, 2011, 88, 4358-4365.	5.1	233
26	Machine learning technology in biodiesel research: A review. Progress in Energy and Combustion Science, 2021, 85, 100904.	15.8	231
27	Simulation and optimization of a LiBr solar absorption cooling system with evacuated tube collectors. Renewable Energy, 2005, 30, 1143-1159.	4.3	226
28	An adaptive wavelet-network model for forecasting daily total solar-radiation. Applied Energy, 2006, 83, 705-722.	5.1	225
29	Optimization of solar systems using artificial neural-networks and genetic algorithms. Applied Energy, 2004, 77, 383-405.	5.1	206
30	Exergy analysis of solar thermal collectors and processes. Progress in Energy and Combustion Science, 2016, 56, 106-137.	15.8	199
31	Modeling and simulation of a stand-alone photovoltaic system using an adaptive artificial neural network: Proposition for a new sizing procedure. Renewable Energy, 2007, 32, 285-313.	4.3	194
32	Artificial neural network-based model for estimating the produced power of a photovoltaic module. Renewable Energy, 2013, 60, 71-78.	4.3	181
33	Measures used to lower building energy consumption and their cost effectiveness. Applied Energy, 2002, 73, 299-328.	5.1	177
34	On-site PV characterization and the effect of soiling on their performance. Energy, 2013, 51, 439-446.	4.5	175
35	Exergy analysis of lithium bromide/water absorption systems. Renewable Energy, 2005, 30, 645-657.	4.3	169
36	Double skin facades (DSF) and building integrated photovoltaics (BIPV): A review of configurations and heat transfer characteristics. Renewable Energy, 2016, 89, 743-756.	4.3	168

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37	A small-scale solar organic Rankine cycle combined heat and power system with integrated thermal energy storage. Applied Thermal Engineering, 2017, 127, 1543-1554.	3.0	159
38	Environmental benefits of domestic solar energy systems. Energy Conversion and Management, 2004, 45, 3075-3092.	4.4	156
39	Fault detection method for grid-connected photovoltaic plants. Renewable Energy, 2014, 66, 99-110.	4.3	151
40	Exergy analysis on solar thermal systems: A better understanding of their sustainability. Renewable Energy, 2016, 85, 1328-1333.	4.3	151
41	Modelling and simulation of an absorption solar cooling system for Cyprus. Solar Energy, 2002, 72, 43-51.	2.9	147
42	Modelling, simulation and warming impact assessment of a domestic-size absorption solar cooling system. Applied Thermal Engineering, 2002, 22, 1313-1325.	3.0	145
43	Survey of solar desalination systems and system selection. Energy, 1997, 22, 69-81.	4.5	140
44	Industrial application of PV/T solar energy systems. Applied Thermal Engineering, 2007, 27, 1259-1270.	3.0	139
45	MODELING OF SOLAR DOMESTIC WATER HEATING SYSTEMS USING ARTIFICIAL NEURAL NETWORKS. Solar Energy, 1999, 65, 335-342.	2.9	133
46	A review on pulsating heat pipes: From solar to cryogenic applications. Applied Energy, 2018, 222, 475-484.	5.1	132
47	Prediction of flat-plate collector performance parameters using artificial neural networks. Solar Energy, 2006, 80, 248-259.	2.9	126
48	MPPT-based artificial intelligence techniques for photovoltaic systems and its implementation into field programmable gate array chips: Review of current status and future perspectives. Energy, 2014, 70, 1-21.	4.5	120
49	ANFIS-based modelling for photovoltaic power supply system: A case study. Renewable Energy, 2011, 36, 250-258.	4.3	118
50	Methodology for predicting sequences of mean monthly clearness index and daily solar radiation data in remote areas: Application for sizing a stand-alone PV system. Renewable Energy, 2008, 33, 1570-1590.	4.3	115
51	Artificial neural networks used for the performance prediction of a thermosiphon solar water heater. Renewable Energy, 1999, 18, 87-99.	4.3	113
52	Evaluation of the application of Phase Change Materials (PCM) on the envelope of a typical dwelling in the Mediterranean region. Renewable Energy, 2016, 97, 24-32.	4.3	113
53	Review of solar and low energy cooling technologies for buildings. Renewable and Sustainable Energy Reviews, 2002, 6, 557-572.	8.2	109
54	Parabolic trough collector system for low temperature steam generation: Design and performance characteristics. Applied Energy, 1996, 55, 1-19.	5.1	101

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55	Design and construction of a one-axis sun-tracking system. Solar Energy, 1996, 57, 465-469.	2.9	101
56	Artificial intelligence and internet of things to improve efficacy of diagnosis and remote sensing of solar photovoltaic systems: Challenges, recommendations and future directions. Renewable and Sustainable Energy Reviews, 2021, 143, 110889.	8.2	101
57	Artificial neural networks in energy applications in buildings. International Journal of Low-Carbon Technologies, 2006, 1, 201-216.	1.2	99
58	Use of parabolic trough solar energy collectors for sea-water desalination. Applied Energy, 1998, 60, 65-88.	5.1	91
59	A comparison between BNN and regression polynomial methods for the evaluation of the effect of soiling in large scale photovoltaic plants. Applied Energy, 2013, 108, 392-401.	5.1	86
60	Design and performance characteristics of a parabolic-trough solar-collector system. Applied Energy, 1994, 47, 341-354.	5.1	85
61	Thermoeconomic optimization of a LiBr absorption refrigeration system. Chemical Engineering and Processing: Process Intensification, 2007, 46, 1376-1384.	1.8	84
62	Artificial neural networks for the performance prediction of large solar systems. Renewable Energy, 2014, 63, 90-97.	4.3	83
63	Parabolic trough collectors for industrial process heat in Cyprus. Energy, 2002, 27, 813-830.	4.5	82
64	Intelligent maximum power point trackers for photovoltaic applications using FPGA chip: A comparative study. Solar Energy, 2014, 101, 83-99.	2.9	81
65	Long-term performance prediction of forced circulation solar domestic water heating systems using artificial neural networks. Applied Energy, 2000, 66, 63-74.	5.1	80
66	Application of neural networks and genetic algorithms for sizing of photovoltaic systems. Renewable Energy, 2010, 35, 2881-2893.	4.3	79
67	Generation of typical meteorological year (TMY-2) for Nicosia, Cyprus. Renewable Energy, 2003, 28, 2317-2334.	4.3	77
68	First in situ determination of the thermal performance of a U-pipe borehole heat exchanger, in Cyprus. Applied Thermal Engineering, 2008, 28, 157-163.	3.0	77
69	Design and simulation of a PV and a PVâ€"Wind standalone energy system to power a household application. Renewable Energy, 2012, 37, 355-363.	4.3	76
70	Status, barriers and perspectives of building integrated photovoltaic systems. Energy, 2020, 191, 116471.	4.5	74
71	Generation of a â€œtypical meteorological yearâ€•for Nicosia, Cyprus. Renewable Energy, 1998, 13, 381-388.	4.3	73
72	Environmental assessment of solar thermal systems for the industrial sector. Journal of Cleaner Production, 2018, 176, 99-109.	4.6	73

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73	Environmental life cycle assessment of biodiesel production from waste cooking oil: A systematic review. Renewable and Sustainable Energy Reviews, 2022, 161, 112411.	8.2	73
74	Thermosiphon solar domestic water heating systems: long-term performance prediction using artificial neural networks. Solar Energy, 2000, 69, 163-174.	2.9	69
75	Modelling of a thermosyphon solar water heating system and simple model validation. Renewable Energy, 2000, 21, 471-493.	4.3	69
76	Energy analysis of buildings employing thermal mass in Cyprus. Renewable Energy, 2002, 27, 353-368.	4.3	69
77	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. Renewable and Sustainable Energy Reviews, 2022, 156, 111975.	8.2	69
78	Modelling, optimisation and performance evaluation of a parabolic trough solar collector steam generation system. Solar Energy, 1997, 60, 49-59.	2.9	68
79	Artificial neural networks for modelling the starting-up of a solar steam-generator. Applied Energy, 1998, 60, 89-100.	5.1	67
80	Modelling of an ICS solar water heater using artificial neural networks and TRNSYS. Renewable Energy, 2009, 34, 1333-1339.	4.3	67
81	Review of techniques based on artificial neural networks for the electrical characterization of concentrator photovoltaic technology. Renewable and Sustainable Energy Reviews, 2017, 75, 938-953.	8.2	66
82	Optimization of the photovoltaic thermal (PV/T) collector absorber. Solar Energy, 2011, 85, 871-880.	2.9	65
83	Waste Heat Recovery in the EU industry and proposed new technologies. Energy Procedia, 2019, 161, 489-496.	1.8	64
84	Modeling of the modern houses of Cyprus and energy consumption analysis. Energy, 2000, 25, 915-937.	4.5	62
85	A new approach using artificial neural networks for determination of the thermodynamic properties of fluid couples. Energy Conversion and Management, 2005, 46, 2405-2418.	4.4	61
86	Phase change materials (PCMs) integrated into transparent building elements: a review. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	1.5	59
87	Estimating the waste heat recovery in the European Union Industry. Energy, Ecology and Environment, 2019, 4, 211-221.	1.9	57
88	New MPPT method for stand-alone photovoltaic systems operating under partially shaded conditions. Energy, 2013, 55, 1172-1185.	4.5	54
89	Building-faÃ§ade integrated solar thermal collectors: Energy-economic performance and indoor comfort simulation model of a water based prototype for heating, cooling, and DHW production. Renewable Energy, 2019, 137, 20-36.	4.3	53
90	The characteristics and the energy behaviour of the residential building stock of Cyprus in view of Directive 2002/91/EC. Energy and Buildings, 2010, 42, 2083-2089.	3.1	52

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91	Preliminary assessment of waste heat potential in major European industries. Energy Procedia, 2017, 123, 335-345.	1.8	52
92	The geothermal characteristics of the ground and the potential of using ground coupled heat pumps in Cyprus. Energy, 2011, 36, 5027-5036.	4.5	51
93	Comparison between measured and calculated energy performance for dwellings in a summer dominant environment. Energy and Buildings, 2011, 43, 3099-3105.	3.1	50
94	Building integration of solar renewable energy systems towards zero or nearly zero energy buildings. International Journal of Low-Carbon Technologies, 2015, 10, 379-385.	1.2	49
95	The impact of the implementation of the European Energy Performance of Buildings Directive on the European building stock: The case of the Cyprus Land Development Corporation. Energy Policy, 2017, 111, 1-8.	4.2	49
96	Heat transfer and sensitivity analysis in a double pipe heat exchanger filled with porous medium. International Journal of Thermal Sciences, 2017, 121, 124-137.	2.6	48
97	Exergy analysis of a naturally ventilated Building Integrated Photovoltaic/Thermal (BIPV/T) system. Renewable Energy, 2018, 128, 541-552.	4.3	48
98	Use of solar Parabolic Trough Collectors for hot water production in Cyprus. A feasibility study. Renewable Energy, 1992, 2, 117-124.	4.3	47
99	Legislation driven scenarios based on recent construction advancements towards the achievement of nearly zero energy dwellings in the southern European country of Cyprus. Energy, 2014, 66, 588-597.	4.5	47
100	Effect of fuel cost on the price of desalination water: a case for renewables. Desalination, 2001, 138, 137-144.	4.0	46
101	Artificial Neural Networks and Genetic Algorithms in Energy Applications in Buildings. Advances in Building Energy Research, 2009, 3, 83-119.	1.1	45
102	Feasibility investigation on using silver nanorods in energy saving windows for light/heat decoupling. Energy, 2022, 245, 123289.	4.5	45
103	Design, construction, performance evaluation and economic analysis of an integrated collector storage system. Renewable Energy, 1997, 12, 179-192.	4.3	44
104	Modeling and assessment of the efficiency of horizontal and vertical ground heat exchangers. Energy, 2013, 58, 655-663.	4.5	44
105	Optimization of effective parameters on solar updraft tower to achieve potential maximum power output: A sensitivity analysis and numerical simulation. Applied Energy, 2017, 195, 725-737.	5.1	44
106	Optimization of the electricity/heat production of a PV/T system based on spectral splitting with Ag nanofluid. Renewable Energy, 2021, 180, 30-39.	4.3	43
107	Thermodynamic analysis of absorption systems using artificial neural network. Renewable Energy, 2006, 31, 29-43.	4.3	42
108	Simulation of a solar domestic water heating system using a time marching model. Renewable Energy, 2002, 27, 441-452.	4.3	41

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109	Modeling a residential grid-connected PV system with battery–supercapacitor storage: Control design and stability analysis. Energy Reports, 2021, 7, 4988-5002.	2.5	40
110	Different methods for modeling absorption heat transformer powered by solar pond. Energy Conversion and Management, 2007, 48, 724-735.	4.4	39
111	Performance of solar systems employing collectors with colored absorber. Energy and Buildings, 2005, 37, 824-835.	3.1	38
112	Broadband optical absorption of amorphous carbon/Ag nanocomposite films and its potential for solar harvesting applications. Solar Energy Materials and Solar Cells, 2013, 117, 350-356.	3.0	38
113	Siting and building-massing considerations for the urban integration of active solar energy systems. Renewable Energy, 2019, 135, 963-974.	4.3	38
114	Development of a neural network-based fault diagnostic system for solar thermal applications. Solar Energy, 2008, 82, 164-172.	2.9	37
115	Artificial neural networks for the generation of geothermal maps of ground temperature at various depths by considering land configuration. Energy, 2012, 48, 233-240.	4.5	36
116	Part I: Thermal analysis of naturally ventilated BIPV system: Experimental investigation and convective heat transfer coefficients estimation. Solar Energy, 2018, 169, 673-681.	2.9	36
117	Improvement of passive behaviour of existing buildings through the integration of active solar energy systems. Energy, 2018, 163, 1178-1192.	4.5	36
118	Solar water heating in Cyprus: current status of technology and problems. Renewable Energy, 1997, 10, 107-112.	4.3	35
119	Part II: Thermal analysis of naturally ventilated BIPV system: Modeling and Simulation. Solar Energy, 2018, 169, 682-691.	2.9	35
120	Flat-plate collector construction and system configuration to optimize the thermosiphonic effect. Renewable Energy, 2014, 67, 202-206.	4.3	34
121	Real-time energy convex optimization, via electrical storage, in buildings – A review. Renewable Energy, 2019, 139, 1355-1365.	4.3	33
122	Comparison of performance and cost effectiveness of solar water heaters at different collector tracking modes in Cyprus and Greece. Energy Conversion and Management, 1999, 40, 1287-1303.	4.4	32
123	Solar thermoelectric power generation in Cyprus: Selection of the best system. Renewable Energy, 2013, 49, 278-281.	4.3	32
124	Optimal economic thickness of various insulation materials for different orientations of external walls considering the wind characteristics. Energy, 2015, 90, 939-952.	4.5	31
125	Economic analysis of solar energy systems using spreadsheets. Renewable Energy, 1996, 9, 1303-1307.	4.3	30
126	Economic analysis of a solar assisted desalination system. Renewable Energy, 1997, 12, 351-367.	4.3	30

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127	Performance enhancement of an integrated collector storage hot water system. Renewable Energy, 1999, 16, 652-655.	4.3	29
128	Cyprus energy policy: The road to the 2006 world renewable energy congress trophy. Renewable Energy, 2008, 33, 355-365.	4.3	28
129	A novel power management algorithm for a residential grid-connected PV system with battery-supercapacitor storage for increased self-consumption and self-sufficiency. Energy Conversion and Management, 2021, 246, 114671.	4.4	28
130	FPGAâ€based implementation of a real time photovoltaic module simulator. Progress in Photovoltaics: Research and Applications, 2010, 18, 115-127.	4.4	27
131	Solar water heating for social housing: Energy analysis and Life Cycle Assessment. Energy and Buildings, 2018, 169, 157-171.	3.1	27
132	Net-zero exergoeconomic and exergoenvironmental building as new concepts for developing sustainable built environments. Energy Conversion and Management, 2021, 244, 114418.	4.4	24
133	Solar Energy Collectors. , 2009, , 121-217.		23
134	Designing and Modeling Solar Energy Systems. , 2014, , 583-699.		23
135	Solar Energy Collectors. , 2014, , 125-220.		23
136	Thermodynamic analysis of subcooling and superheating effects of alternative refrigerants for vapour compression refrigeration cycles. International Journal of Energy Research, 2006, 30, 323-347.	2.2	22
137	Recent Patents in Solar Energy Collectors and Applications. Recent Patents on Engineering, 2007, 1, 23-33.	0.3	20
138	FPGA-based implementation of intelligent predictor for global solar irradiation, Part I: Theory and simulation. Expert Systems With Applications, 2011, 38, 2668-2685.	4.4	20
139	Predicting the pressure coefficients in a naturally ventilated test room using artificial neural networks. Building and Environment, 2003, 38, 399-407.	3.0	19
140	Cyprus solar water heating cluster: A missed opportunity?. Energy Policy, 2007, 35, 3302-3315.	4.2	19
141	Applications of artificial neural-networks for energy systems. , 2000, , 17-35.		18
142	Waste Heat Recovery Technologies Revisited with Emphasis on New Solutions, Including Heat Pipes, and Case Studies. Energies, 2022, 15, 384.	1.6	18
143	Low cost high accuracy parabolic troughs construction and evaluation. Renewable Energy, 1994, 5, 384-386.	4.3	17
144	The energy subsidisation policies of Cyprus and their effect on renewable energy systems economics. Renewable Energy, 2003, 28, 1711-1728.	4.3	17

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145	Photovoltaic Systems. , 2014, , 481-540.		17
146	Environmental Characteristics. , 2014, , 51-123.		17
147	Artificial neural networks for the generation of a conductivity map of the ground. Renewable Energy, 2015, 77, 400-407.	4.3	17
148	Financial appraisal of a combined heat and power system for a hotel in Cyprus. Energy Conversion and Management, 2001, 42, 689-708.	4.4	16
149	Neuro-Fuzzy Based Modeling for Photovoltaic Power Supply System. , 2006, , .		16
150	Modeling of a photovoltaic system with different MPPT techniques using MATLAB/Simulink. , 2018, , .		16
151	Photovoltaic Systems. , 2009, , 469-519.		15
152	The Effect of Air Flow on a Building Integrated PV-panel. Procedia IUTAM, 2014, 11, 89-97.	1.2	15
153	A Hybrid Optimization Approach for Autonomy Enhancement of Nearly-Zero-Energy Buildings Based on Battery Performance and Artificial Neural Networks. Energies, 2020, 13, 3680.	1.6	14
154	Design of a new spray-type seawater evaporator. Desalination, 2001, 139, 345-352.	4.0	13
155	Geothermal properties of the ground in Cyprus and their effect on the efficiency of ground coupled heat pumps. Renewable Energy, 2013, 49, 85-89.	4.3	13
156	Artificial Neural Networks and Genetic Algorithms for the Modeling, Simulation, and Performance Prediction of Solar Energy Systems. Green Energy and Technology, 2013, , 225-245.	0.4	13
157	Solar Thermal Power Systems. , 2014, , 541-581.		13
158	Mock target IR thermography for indoor air temperature measurement. Applied Energy, 2016, 164, 676-685.	5.1	13
159	Hybrid battery-supercapacitor mathematical modeling for PV application using Matlab/Simulink. , 2018, , .		13
160	A design tool for a parabolic trough collector system for industrial process heat based on dynamic simulation. Renewable Energy, 2022, 183, 502-514.	4.3	13
161	A thermal model for reptiles and pelycosaurs. Journal of Thermal Biology, 1999, 24, 1-13.	1.1	12
162	Evolution of domestic dwellings in Cyprus and energy analysis. Renewable Energy, 2001, 23, 219-234.	4.3	12

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163	Artificial neural networks for predicting air flow in a naturally ventilated test room. Building Services Engineering Research and Technology, 2001, 22, 83-93.	0.9	12
164	Designing and Modeling Solar Energy Systems. , 2009, , 553-664.		12
165	PV roofs as the first step towards 100% RES electricity production for Mediterranean islands: The case of Cyprus. Smart Energy, 2021, 4, 100053.	2.6	11
166	Natural environment and thermal behaviour of Dimetrodon limbatus. Journal of Thermal Biology, 2001, 26, 15-20.	1.1	9
167	Environmental Characteristics. , 2009, , 49-762.		9
168	Indirect Solar Desalination (MSF, MED, MVC, TVC). , 2016, , 283-326.		9
169	Solar Distillationâ€"Solar Stills. , 2016, , 103-190.		9
170	A Roadmap for the Integration of Active Solar Systems into Buildings. Applied Sciences (Switzerland), 2019, 9, 2462.	1.3	9
171	Use of artificial intelligence for the optimal design of solar systems. International Journal of Computer Applications in Technology, 2005, 22, 90.	0.3	8
172	Theoretical and Experimental Analysis of a Salt Gradient Solar Pond with Insulated and Reflective Covers. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2009, 31, 985-1003.	1.2	8
173	Performance of Solar Collectors. , 2009, , 219-250.		8
174	Modeling and Simulation of Passive and Active Solar Thermal Systems. , 2012, , 357-417.		8
175	Energy Labelling and Ecodesign of solar thermal products: Opportunities, challenges and problematic implementation aspects. Renewable Energy, 2017, 101, 728-736.	4.3	8
176	A grid-connected photovoltaic system: Mathematical modeling using MATLAB/Simulink. , 2017, , .		8
177	Introduction to Renewable Energy Powered Desalination. , 2018, , 3-46.		7
178	Implementing artificial neural networks in energy building applications â€" A review. , 2018, , .		7
179	Concentrating Solar Power Plants for Electricity and Desalinated Water Production. , 2011, , .		7
180	Solar Thermal Power Systems. , 2009, , 521-552.		6

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181	Performance of Solar Collectors. , 2014, , 221-256.		6
182	Solar Desalination Systems. , 2014, , 431-479.		6
183	Industrial Process Heat, Chemistry Applications, and Solar Dryers. , 2014, , 397-429.		6
184	A linear programming approach to the optimal utilization of renewable energy sources in buildings. , 2017, , .		6
185	Solar Space Heating and Cooling Systems. , 2012, , 449-480.		5
186	Solar Selective Coatings. , 2012, , 301-312.		5
187	Solar Thermal Systems. , 2012, , 1-25.		5
188	Solar Space Heating and Cooling. , 2014, , 323-395.		5
189	Solar Thermal Systems â€" Towards a Systematic Characterization of Building Integration. Energy Procedia, 2016, 91, 897-906.	1.8	5
190	Application of Artificial Neural Networks for the Prediction of a 20-kWp Grid-Connected Photovoltaic Plant Power Output. Studies in Fuzziness and Soft Computing, 2011, , 261-283.	0.6	5
191	PEM Fuel Cells for Energy Production in Solar Hydrogen Systems. Recent Patents on Mechanical Engineering, 2010, 3, 226-235.	0.2	5
192	Artificial Intelligence Techniques for Modern Energy Applications. , 2010, , 1-39.		5
193	Development of an Artificial Neural Network Based Fault Diagnostic System of an Electric Car. , 2000, , .		4
194	Neural Network Modeling of Energy Systems. , 2004, , 291-299.		4
195	Solar Water Heating Systems. , 2009, , 251-314.		4
196	Industrial Process Heat, Chemistry Applications, and Solar Dryers. , 2009, , 391-420.		4
197	A Survey on the Application of Artificial Intelligence Techniques for Photovoltaic Systems. , 2018, , 735-761.		4
198	Energy management and modeling of a grid-connected BIPV system with battery energy storage. , 2019, , .		4

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199	Solar Space Heating and Cooling. , 2009, , 315-389.		3
200	Solar Desalination Systems. , 2009, , 421-468.		3
201	Solar Economic Analysis. , 2014, , 701-734.		3
202	Water, the Raw Material for Desalination. , 2016, , 21-102.		3
203	Machine Learning and Deep Learning for Photovoltaic Applications. , 2022, , 1-20.		3
204	Expert System for Energy Management of Electric Cars. , 1999, , .		2
205	Solar Hydrogen Production and Storage Techniques. Recent Patents on Mechanical Engineering, 2010, 3, 154-159.	0.2	2
206	Solar Thermal Energy: History. , 2022, , 7-19.		2
207	Solar Economic Analysis. , 2009, , 665-701.		1
208	Low Concentration Ratio Solar Collectors. , 2012, , 149-163.		1
209	Solar Water-Heating Systems. , 2014, , 257-321.		1
210	Applications of ANNs in the Field of the HCPV Technology. Green Energy and Technology, 2015, , 333-351.	0.4	1
211	Building-Integrated Solar Thermal Systems. , 2016, , 713-721.		1
212	Modeling and Simulation of Passive and Active Solar Thermal Systems. , 2021, , .		1
213	Comparison of the Simulated Performance of Solar Water Heaters by Using Tmy and Mean Monthly Data. , 2000, , 1011-1014.		1
214	Environmental Assessment of the Integration of Active Solar Energy Systems on Building Envelopes in Southern Europe. , 0, , .		1
215	Solar Thermal Systems: Components and Applicationsâ€"Introduction. , 2020, , 1-1.		1
216	Artificial intelligence techniques: Machine learning and deep learning algorithms. , 2022, , 43-83.		1

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