

Soteris A Kalogirou

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4145403/soteris-a-kalogirou-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

17,801
citations

64
h-index

131
g-index

238
ext. papers

20,684
ext. citations

8.5
avg, IF

7.63
L-index

#	Paper	IF	Citations
222	Solar thermal collectors and applications. <i>Progress in Energy and Combustion Science</i> , 2004 , 30, 231-295	33.6	1787
221	A review of the applications of nanofluids in solar energy. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 57, 582-594	4.9	904
220	Artificial neural networks in renewable energy systems applications: a review. <i>Renewable and Sustainable Energy Reviews</i> , 2001 , 5, 373-401	16.2	717
219	Machine learning methods for solar radiation forecasting: A review. <i>Renewable Energy</i> , 2017 , 105, 569-582	8.1	715
218	Seawater desalination using renewable energy sources. <i>Progress in Energy and Combustion Science</i> , 2005 , 31, 242-281	33.6	663
217	Applications of artificial neural-networks for energy systems. <i>Applied Energy</i> , 2000 , 67, 17-35	10.7	624
216	Artificial intelligence techniques for photovoltaic applications: A review. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 574-632	33.6	510
215	Ground heat exchangers: A review of systems, models and applications. <i>Renewable Energy</i> , 2007 , 32, 2461-2478	8.1	466
214	The potential of solar industrial process heat applications. <i>Applied Energy</i> , 2003 , 76, 337-361	10.7	382
213	Artificial intelligence for the modeling and control of combustion processes: a review. <i>Progress in Energy and Combustion Science</i> , 2003 , 29, 515-566	33.6	379
212	Hybrid PV/T solar systems for domestic hot water and electricity production. <i>Energy Conversion and Management</i> , 2006 , 47, 3368-3382	10.6	324
211	Artificial neural networks for the prediction of the energy consumption of a passive solar building. <i>Energy</i> , 2000 , 25, 479-491	7.9	323
210	Artificial intelligence techniques for sizing photovoltaic systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 406-419	16.2	321
209	Photovoltaic thermal (PV/T) collectors: A review. <i>Applied Thermal Engineering</i> , 2007 , 27, 275-286	5.8	292
208	Design and construction of a LiBr-water absorption machine. <i>Energy Conversion and Management</i> , 2003 , 44, 2483-2508	10.6	256
207	Infrared thermography (IRT) applications for building diagnostics: A review. <i>Applied Energy</i> , 2014 , 134, 531-549	10.7	250
206	Applications of artificial neural networks in energy systems. <i>Energy Conversion and Management</i> , 1999 , 40, 1073-1087	10.6	223

205	Use of TRNSYS for modelling and simulation of a hybrid photothermal solar system for Cyprus. <i>Renewable Energy</i> , 2001 , 23, 247-260	8.1	215
204	Thermal performance, economic and environmental life cycle analysis of thermosiphon solar water heaters. <i>Solar Energy</i> , 2009 , 83, 39-48	6.8	202
203	Fault detection and diagnosis methods for photovoltaic systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 1-17	16.2	197
202	An adaptive wavelet-network model for forecasting daily total solar-radiation. <i>Applied Energy</i> , 2006 , 83, 705-722	10.7	196
201	Simulation and optimization of a LiBr solar absorption cooling system with evacuated tube collectors. <i>Renewable Energy</i> , 2005 , 30, 1143-1159	8.1	195
200	A detailed thermal model of a parabolic trough collector receiver. <i>Energy</i> , 2012 , 48, 298-306	7.9	186
199	Maximum power point tracking using a GA optimized fuzzy logic controller and its FPGA implementation. <i>Solar Energy</i> , 2011 , 85, 265-277	6.8	185
198	Application of infrared thermography for the determination of the overall heat transfer coefficient (U-Value) in building envelopes. <i>Applied Energy</i> , 2011 , 88, 4358-4365	10.7	181
197	Energy storage for electricity generation and related processes: Technologies appraisal and grid scale applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 804-821	16.2	178
196	Optimization of solar systems using artificial neural-networks and genetic algorithms. <i>Applied Energy</i> , 2004 , 77, 383-405	10.7	174
195	Modeling and simulation of a stand-alone photovoltaic system using an adaptive artificial neural network: Proposition for a new sizing procedure. <i>Renewable Energy</i> , 2007 , 32, 285-313	8.1	159
194	Exergy analysis of solar thermal collectors and processes. <i>Progress in Energy and Combustion Science</i> , 2016 , 56, 106-137	33.6	150
193	Sustainable development using renewable energy technology. <i>Renewable Energy</i> , 2020 , 146, 2430-2437	8.1	144
192	Measures used to lower building energy consumption and their cost effectiveness. <i>Applied Energy</i> , 2002 , 73, 299-328	10.7	136
191	Exergy analysis of lithium bromide/water absorption systems. <i>Renewable Energy</i> , 2005 , 30, 645-657	8.1	136
190	On-site PV characterization and the effect of soiling on their performance. <i>Energy</i> , 2013 , 51, 439-446	7.9	130
189	Artificial neural network-based model for estimating the produced power of a photovoltaic module. <i>Renewable Energy</i> , 2013 , 60, 71-78	8.1	127
188	Exergy analysis on solar thermal systems: A better understanding of their sustainability. <i>Renewable Energy</i> , 2016 , 85, 1328-1333	8.1	126

187	Modelling, simulation and warming impact assessment of a domestic-size absorption solar cooling system. <i>Applied Thermal Engineering</i> , 2002 , 22, 1313-1325	5.8	126
186	Double skin facades (DSF) and building integrated photovoltaics (BIPV): A review of configurations and heat transfer characteristics. <i>Renewable Energy</i> , 2016 , 89, 743-756	8.1	122
185	Modelling and simulation of an absorption solar cooling system for Cyprus. <i>Solar Energy</i> , 2002 , 72, 43-51	6.8	122
184	Environmental benefits of domestic solar energy systems. <i>Energy Conversion and Management</i> , 2004 , 45, 3075-3092	10.6	121
183	Industrial application of PV/T solar energy systems. <i>Applied Thermal Engineering</i> , 2007 , 27, 1259-1270	5.8	119
182	Fault detection method for grid-connected photovoltaic plants. <i>Renewable Energy</i> , 2014 , 66, 99-110	8.1	116
181	Survey of solar desalination systems and system selection. <i>Energy</i> , 1997 , 22, 69-81	7.9	111
180	A small-scale solar organic Rankine cycle combined heat and power system with integrated thermal energy storage. <i>Applied Thermal Engineering</i> , 2017 , 127, 1543-1554	5.8	110
179	MODELING OF SOLAR DOMESTIC WATER HEATING SYSTEMS USING ARTIFICIAL NEURAL NETWORKS. <i>Solar Energy</i> , 1999 , 65, 335-342	6.8	110
178	Prediction of flat-plate collector performance parameters using artificial neural networks. <i>Solar Energy</i> , 2006 , 80, 248-259	6.8	102
177	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. <i>Renewable Energy</i> , 2008 , 33, 1570-1590	8.1	99
176	ANFIS-based modelling for photovoltaic power supply system: A case study. <i>Renewable Energy</i> , 2011 , 36, 250-258	8.1	97
175	MPPT-based artificial intelligence techniques for photovoltaic systems and its implementation into field programmable gate array chips: Review of current status and future perspectives. <i>Energy</i> , 2014 , 70, 1-21	7.9	94
174	Review of solar and low energy cooling technologies for buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2002 , 6, 557-572	16.2	93
173	Artificial neural networks used for the performance prediction of a thermosiphon solar water heater. <i>Renewable Energy</i> , 1999 , 18, 87-99	8.1	88
172	A review on pulsating heat pipes: From solar to cryogenic applications. <i>Applied Energy</i> , 2018 , 222, 475-484	6.7	84
171	Machine learning technology in biodiesel research: A review. <i>Progress in Energy and Combustion Science</i> , 2021 , 85, 100904	33.6	84
170	Parabolic trough collector system for low temperature steam generation: Design and performance characteristics. <i>Applied Energy</i> , 1996 , 55, 1-19	10.7	83

169	Use of parabolic trough solar energy collectors for sea-water desalination. <i>Applied Energy</i> , 1998 , 60, 65-88	8.7	80
168	Parabolic trough collectors for industrial process heat in Cyprus. <i>Energy</i> , 2002 , 27, 813-830	7.9	77
167	Evaluation of the application of Phase Change Materials (PCM) on the envelope of a typical dwelling in the Mediterranean region. <i>Renewable Energy</i> , 2016 , 97, 24-32	8.1	77
166	A comparison between BNN and regression polynomial methods for the evaluation of the effect of soiling in large scale photovoltaic plants. <i>Applied Energy</i> , 2013 , 108, 392-401	10.7	72
165	Design and construction of a one-axis sun-tracking system. <i>Solar Energy</i> , 1996 , 57, 465-469	6.8	72
164	Long-term performance prediction of forced circulation solar domestic water heating systems using artificial neural networks. <i>Applied Energy</i> , 2000 , 66, 63-74	10.7	71
163	Application of neural networks and genetic algorithms for sizing of photovoltaic systems. <i>Renewable Energy</i> , 2010 , 35, 2881-2893	8.1	68
162	Artificial neural networks for the performance prediction of large solar systems. <i>Renewable Energy</i> , 2014 , 63, 90-97	8.1	67
161	First in situ determination of the thermal performance of a U-pipe borehole heat exchanger, in Cyprus. <i>Applied Thermal Engineering</i> , 2008 , 28, 157-163	5.8	67
160	Intelligent maximum power point trackers for photovoltaic applications using FPGA chip: A comparative study. <i>Solar Energy</i> , 2014 , 101, 83-99	6.8	66
159	Thermoeconomic optimization of a LiBr absorption refrigeration system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007 , 46, 1376-1384	3.7	64
158	Generation of typical meteorological year (TMY-2) for Nicosia, Cyprus. <i>Renewable Energy</i> , 2003 , 28, 2317-2334	8.3	63
157	Design and simulation of a PV and a PV/Wind standalone energy system to power a household application. <i>Renewable Energy</i> , 2012 , 37, 355-363	8.1	61
156	Generation of a typical meteorological year for Nicosia, Cyprus. <i>Renewable Energy</i> , 1998 , 13, 381-388	8.1	60
155	Artificial neural networks in energy applications in buildings. <i>International Journal of Low-Carbon Technologies</i> , 2006 , 1, 201-216	2.8	60
154	Energy analysis of buildings employing thermal mass in Cyprus. <i>Renewable Energy</i> , 2002 , 27, 353-368	8.1	59
153	Modelling of a thermosyphon solar water heating system and simple model validation. <i>Renewable Energy</i> , 2000 , 21, 471-493	8.1	59
152	Modelling of an ICS solar water heater using artificial neural networks and TRNSYS. <i>Renewable Energy</i> , 2009 , 34, 1333-1339	8.1	58

151	Artificial neural networks for modelling the starting-up of a solar steam-generator. <i>Applied Energy</i> , 1998 , 60, 89-100	10.7	57
150	Thermosiphon solar domestic water heating systems: long-term performance prediction using artificial neural networks. <i>Solar Energy</i> , 2000 , 69, 163-174	6.8	57
149	Review of techniques based on artificial neural networks for the electrical characterization of concentrator photovoltaic technology. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 938-953	16.2	56
148	Optimization of the photovoltaic thermal (PV/T) collector absorber. <i>Solar Energy</i> , 2011 , 85, 871-880	6.8	56
147	Design and performance characteristics of a parabolic-trough solar-collector system. <i>Applied Energy</i> , 1994 , 47, 341-354	10.7	56
146	Modelling, optimisation and performance evaluation of a parabolic trough solar collector steam generation system. <i>Solar Energy</i> , 1997 , 60, 49-59	6.8	53
145	Modeling of the modern houses of Cyprus and energy consumption analysis. <i>Energy</i> , 2000 , 25, 915-937	7.9	53
144	A new approach using artificial neural networks for determination of the thermodynamic properties of fluid couples. <i>Energy Conversion and Management</i> , 2005 , 46, 2405-2418	10.6	52
143	New MPPT method for stand-alone photovoltaic systems operating under partially shaded conditions. <i>Energy</i> , 2013 , 55, 1172-1185	7.9	51
142	The characteristics and the energy behaviour of the residential building stock of Cyprus in view of Directive 2002/91/EC. <i>Energy and Buildings</i> , 2010 , 42, 2083-2089	7	47
141	Phase change materials (PCMs) integrated into transparent building elements: a review. <i>Materials for Renewable and Sustainable Energy</i> , 2015 , 4, 1	4.7	46
140	Environmental assessment of solar thermal systems for the industrial sector. <i>Journal of Cleaner Production</i> , 2018 , 176, 99-109	10.3	44
139	Comparison between measured and calculated energy performance for dwellings in a summer dominant environment. <i>Energy and Buildings</i> , 2011 , 43, 3099-3105	7	43
138	The geothermal characteristics of the ground and the potential of using ground coupled heat pumps in Cyprus. <i>Energy</i> , 2011 , 36, 5027-5036	7.9	42
137	Use of solar Parabolic Trough Collectors for hot water production in Cyprus. A feasibility study. <i>Renewable Energy</i> , 1992 , 2, 117-124	8.1	42
136	Waste Heat Recovery in the EU industry and proposed new technologies. <i>Energy Procedia</i> , 2019 , 161, 489-496	2.3	41
135	Effect of fuel cost on the price of desalination water: a case for renewables. <i>Desalination</i> , 2001 , 138, 137-144	10.3	41
134	Building-façade integrated solar thermal collectors: Energy-economic performance and indoor comfort simulation model of a water based prototype for heating, cooling, and DHW production. <i>Renewable Energy</i> , 2019 , 137, 20-36	8.1	41

133	Legislation driven scenarios based on recent construction advancements towards the achievement of nearly zero energy dwellings in the southern European country of Cyprus. <i>Energy</i> , 2014 , 66, 588-597	7.9	40
132	Artificial intelligence and internet of things to improve efficacy of diagnosis and remote sensing of solar photovoltaic systems: Challenges, recommendations and future directions. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 143, 110889	16.2	40
131	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. <i>Energy Policy</i> , 2017 , 111, 1-8	7.2	39
130	Modeling and assessment of the efficiency of horizontal and vertical ground heat exchangers. <i>Energy</i> , 2013 , 58, 655-663	7.9	38
129	Status, barriers and perspectives of building integrated photovoltaic systems. <i>Energy</i> , 2020 , 191, 116471-7	7.9	38
128	Design, construction, performance evaluation and economic analysis of an integrated collector storage system. <i>Renewable Energy</i> , 1997 , 12, 179-192	8.1	37
127	Preliminary assessment of waste heat potential in major European industries. <i>Energy Procedia</i> , 2017 , 123, 335-345	2.3	36
126	Simulation of a solar domestic water heating system using a time marching model. <i>Renewable Energy</i> , 2002 , 27, 441-452	8.1	36
125	Artificial Neural Networks and Genetic Algorithms in Energy Applications in Buildings. <i>Advances in Building Energy Research</i> , 2009 , 3, 83-119	1.8	35
124	Different methods for modeling absorption heat transformer powered by solar pond. <i>Energy Conversion and Management</i> , 2007 , 48, 724-735	10.6	35
123	Thermodynamic analysis of absorption systems using artificial neural network. <i>Renewable Energy</i> , 2006 , 31, 29-43	8.1	35
122	Performance of solar systems employing collectors with colored absorber. <i>Energy and Buildings</i> , 2005 , 37, 824-835	7	34
121	Optimization of effective parameters on solar updraft tower to achieve potential maximum power output: A sensitivity analysis and numerical simulation. <i>Applied Energy</i> , 2017 , 195, 725-737	10.7	32
120	Broadband optical absorption of amorphous carbon/Ag nanocomposite films and its potential for solar harvesting applications. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 350-356	6.4	31
119	Heat transfer and sensitivity analysis in a double pipe heat exchanger filled with porous medium. <i>International Journal of Thermal Sciences</i> , 2017 , 121, 124-137	4.1	31
118	Building integration of solar renewable energy systems towards zero or nearly zero energy buildings. <i>International Journal of Low-Carbon Technologies</i> , 2015 , 10, 379-385	2.8	31
117	Exergy analysis of a naturally ventilated Building Integrated Photovoltaic/Thermal (BIPV/T) system. <i>Renewable Energy</i> , 2018 , 128, 541-552	8.1	30
116	Development of a neural network-based fault diagnostic system for solar thermal applications. <i>Solar Energy</i> , 2008 , 82, 164-172	6.8	30

115	Economic analysis of a solar assisted desalination system. <i>Renewable Energy</i> , 1997 , 12, 351-367	8.1	29
114	Solar water heating in Cyprus: current status of technology and problems. <i>Renewable Energy</i> , 1997 , 10, 107-112	8.1	28
113	Flat-plate collector construction and system configuration to optimize the thermosiphonic effect. <i>Renewable Energy</i> , 2014 , 67, 202-206	8.1	26
112	FPGA-based implementation of a real time photovoltaic module simulator. <i>Progress in Photovoltaics: Research and Applications</i> , 2010 , 18, 115-127	6.8	26
111	Performance enhancement of an integrated collector storage hot water system. <i>Renewable Energy</i> , 1999 , 16, 652-655	8.1	26
110	Economic analysis of solar energy systems using spreadsheets. <i>Renewable Energy</i> , 1996 , 9, 1303-1307	8.1	26
109	Estimating the waste heat recovery in the European Union Industry. <i>Energy, Ecology and Environment</i> , 2019 , 4, 211-221	3.5	24
108	Solar thermoelectric power generation in Cyprus: Selection of the best system. <i>Renewable Energy</i> , 2013 , 49, 278-281	8.1	24
107	Artificial neural networks for the generation of geothermal maps of ground temperature at various depths by considering land configuration. <i>Energy</i> , 2012 , 48, 233-240	7.9	24
106	Part I: Thermal analysis of naturally ventilated BIPV system: Experimental investigation and convective heat transfer coefficients estimation. <i>Solar Energy</i> , 2018 , 169, 673-681	6.8	23
105	Cyprus energy policy: The road to the 2006 world renewable energy congress trophy. <i>Renewable Energy</i> , 2008 , 33, 355-365	8.1	23
104	Comparison of performance and cost effectiveness of solar water heaters at different collector tracking modes in Cyprus and Greece. <i>Energy Conversion and Management</i> , 1999 , 40, 1287-1303	10.6	23
103	Siting and building-massing considerations for the urban integration of active solar energy systems. <i>Renewable Energy</i> , 2019 , 135, 963-974	8.1	23
102	Optimal economic thickness of various insulation materials for different orientations of external walls considering the wind characteristics. <i>Energy</i> , 2015 , 90, 939-952	7.9	22
101	Part II: Thermal analysis of naturally ventilated BIPV system: Modeling and Simulation. <i>Solar Energy</i> , 2018 , 169, 682-691	6.8	22
100	Improvement of passive behaviour of existing buildings through the integration of active solar energy systems. <i>Energy</i> , 2018 , 163, 1178-1192	7.9	22
99	Thermodynamic analysis of subcooling and superheating effects of alternative refrigerants for vapour compression refrigeration cycles. <i>International Journal of Energy Research</i> , 2006 , 30, 323-347	4.5	20
98	Real-time energy convex optimization, via electrical storage, in buildings – A review. <i>Renewable Energy</i> , 2019 , 139, 1355-1365	8.1	19

97	Solar water heating for social housing: Energy analysis and Life Cycle Assessment. <i>Energy and Buildings</i> , 2018 , 169, 157-171	7	19
96	FPGA-based implementation of intelligent predictor for global solar irradiation, Part I: Theory and simulation. <i>Expert Systems With Applications</i> , 2011 , 38, 2668-2685	7.8	17
95	Artificial neural networks for the generation of a conductivity map of the ground. <i>Renewable Energy</i> , 2015 , 77, 400-407	8.1	16
94	Predicting the pressure coefficients in a naturally ventilated test room using artificial neural networks. <i>Building and Environment</i> , 2003 , 38, 399-407	6.5	16
93	Financial appraisal of a combined heat and power system for a hotel in Cyprus. <i>Energy Conversion and Management</i> , 2001 , 42, 689-708	10.6	16
92	Designing and Modeling Solar Energy Systems 2014 , 583-699		15
91	Cyprus solar water heating cluster: A missed opportunity?. <i>Energy Policy</i> , 2007 , 35, 3302-3315	7.2	15
90	The energy subsidisation policies of Cyprus and their effect on renewable energy systems economics. <i>Renewable Energy</i> , 2003 , 28, 1711-1728	8.1	15
89	Solar Energy Collectors 2014 , 125-220		14
88	Recent Patents in Solar Energy Collectors and Applications. <i>Recent Patents on Engineering</i> , 2007 , 1, 23-33	3.3	14
87	Low cost high accuracy parabolic troughs construction and evaluation. <i>Renewable Energy</i> , 1994 , 5, 384-386		14
86	The Effect of Air Flow on a Building Integrated PV-panel. <i>Procedia IUTAM</i> , 2014 , 11, 89-97		13
85	Solar Energy Collectors 2009 , 121-217		13
84	Applications of artificial neural-networks for energy systems 2000 , 17-35		13
83	Geothermal properties of the ground in Cyprus and their effect on the efficiency of ground coupled heat pumps. <i>Renewable Energy</i> , 2013 , 49, 85-89	8.1	12
82	Design of a new spray-type seawater evaporator. <i>Desalination</i> , 2001 , 139, 345-352	10.3	12
81	A thermal model for reptiles and pelycosaurus. <i>Journal of Thermal Biology</i> , 1999 , 24, 1-13	2.9	12
80	Photovoltaic Systems 2009 , 469-519		11

79	Neuro-Fuzzy Based Modeling for Photovoltaic Power Supply System 2006 ,		11
78	Evolution of domestic dwellings in Cyprus and energy analysis. <i>Renewable Energy</i> , 2001 , 23, 219-234	8.1	11
77	Photovoltaic Systems 2014 , 481-540		10
76	Artificial Neural Networks and Genetic Algorithms for the Modeling, Simulation, and Performance Prediction of Solar Energy Systems. <i>Green Energy and Technology</i> , 2013 , 225-245	0.6	10
75	Artificial neural networks for predicting air flow in a naturally ventilated test room. <i>Building Services Engineering Research and Technology</i> , 2001 , 22, 83-93	2.3	10
74	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 156, 111975	16.2	10
73	Mock target IR thermography for indoor air temperature measurement. <i>Applied Energy</i> , 2016 , 164, 676-685	6.7	9
72	Environmental Characteristics 2014 , 51-123		9
71	Solar Thermal Power Systems 2014 , 541-581		9
70	Designing and Modeling Solar Energy Systems 2009 , 553-664		9
69	Environmental Characteristics 2009 , 49-762		9
68	Natural environment and thermal behaviour of <i>Dimetrodon limbatus</i> . <i>Journal of Thermal Biology</i> , 2001 , 26, 15-20	2.9	9
67	Net-zero exergoeconomic and exergoenvironmental building as new concepts for developing sustainable built environments. <i>Energy Conversion and Management</i> , 2021 , 244, 114418	10.6	9
66	Optimization of the electricity/heat production of a PV/T system based on spectral splitting with Ag nanofluid. <i>Renewable Energy</i> , 2021 , 180, 30-39	8.1	9
65	Feasibility investigation on using silver nanorods in energy saving windows for light/heat decoupling. <i>Energy</i> , 2022 , 245, 123289	7.9	8
64	A Hybrid Optimization Approach for Autonomy Enhancement of Nearly-Zero-Energy Buildings Based on Battery Performance and Artificial Neural Networks. <i>Energies</i> , 2020 , 13, 3680	3.1	8
63	Modeling of a photovoltaic system with different MPPT techniques using MATLAB/Simulink 2018 ,		7
62	A grid-connected photovoltaic system: Mathematical modeling using MATLAB/Simulink 2017 ,		6

61	Theoretical and Experimental Analysis of a Salt Gradient Solar Pond with Insulated and Reflective Covers. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2009 , 31, 985-1003	1.6	6
60	Modeling a residential grid-connected PV system with battery/supercapacitor storage: Control design and stability analysis. <i>Energy Reports</i> , 2021 , 7, 4988-5002	4.6	6
59	Energy Labelling and Ecodesign of solar thermal products: Opportunities, challenges and problematic implementation aspects. <i>Renewable Energy</i> , 2017 , 101, 728-736	8.1	5
58	Performance of Solar Collectors 2014 , 221-256		5
57	Performance of Solar Collectors 2009 , 219-250		5
56	Solar Thermal Power Systems 2009 , 521-552		5
55	Use of artificial intelligence for the optimal design of solar systems. <i>International Journal of Computer Applications in Technology</i> , 2005 , 22, 90	0.7	5
54	PEM Fuel Cells for Energy Production in Solar Hydrogen Systems. <i>Recent Patents on Mechanical Engineering</i> , 2010 , 3, 226-235	0.3	5
53	Concentrating Solar Power Plants for Electricity and Desalinated Water Production 2011 ,		5
52	Application of Artificial Neural Networks for the Prediction of a 20-kWp Grid-Connected Photovoltaic Plant Power Output. <i>Studies in Fuzziness and Soft Computing</i> , 2011 , 261-283	0.7	5
51	Solar Distillation/Solar Stills 2016 , 103-190		5
50	A novel power management algorithm for a residential grid-connected PV system with battery-supercapacitor storage for increased self-consumption and self-sufficiency. <i>Energy Conversion and Management</i> , 2021 , 246, 114671	10.6	5
49	A Survey on the Application of Artificial Intelligence Techniques for Photovoltaic Systems 2018 , 735-761		4
48	A Roadmap for the Integration of Active Solar Systems into Buildings. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2462	2.6	4
47	Solar Desalination Systems 2014 , 431-479		4
46	Modeling and Simulation of Passive and Active Solar Thermal Systems 2012 , 357-417		4
45	Solar Selective Coatings 2012 , 301-312		4
44	Development of an Artificial Neural Network Based Fault Diagnostic System of an Electric Car 2000 ,		4

43	Indirect Solar Desalination (MSF, MED, MVC, TVC) 2016 , 283-326		4
42	Hybrid battery-supercapacitor mathematical modeling for PV application using Matlab/Simulink 2018 ,		4
41	Introduction to Renewable Energy Powered Desalination 2018 , 3-46		4
40	Implementing artificial neural networks in energy building applications [A review 2018 ,		4
39	Energy management and modeling of a grid-connected BIPV system with battery energy storage 2019 ,		3
38	Industrial Process Heat, Chemistry Applications, and Solar Dryers 2014 , 397-429		3
37	A linear programming approach to the optimal utilization of renewable energy sources in buildings 2017 ,		3
36	Solar Space Heating and Cooling Systems 2012 , 449-480		3
35	Solar Thermal Systems 2012 , 1-25		3
34	Solar Space Heating and Cooling 2009 , 315-389		3
33	Solar Desalination Systems 2009 , 421-468		3
32	Neural Network Modeling of Energy Systems 2004 , 291-299		3
31	Waste Heat Recovery Technologies Revisited with Emphasis on New Solutions, Including Heat Pipes, and Case Studies. <i>Energies</i> , 2022 , 15, 384	3.1	3
30	Solar Thermal Systems [Towards a Systematic Characterization of Building Integration. <i>Energy Procedia</i> , 2016 , 91, 897-906	2.3	3
29	Environmental life cycle assessment of biodiesel production from waste cooking oil: A systematic review. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 161, 112411	16.2	3
28	Solar Space Heating and Cooling 2014 , 323-395		2
27	Solar Economic Analysis 2014 , 701-734		2
26	Solar Water Heating Systems 2009 , 251-314		2

25	Industrial Process Heat, Chemistry Applications, and Solar Dryers 2009 , 391-420		2
24	PV roofs as the first step towards 100% RES electricity production for Mediterranean islands: The case of Cyprus. <i>Smart Energy</i> , 2021 , 4, 100053		2
23	Artificial Intelligence Techniques for Modern Energy Applications 2010 , 1-39		2
22	Applications of ANNs in the Field of the HCPV Technology. <i>Green Energy and Technology</i> , 2015 , 333-351	0.6	1
21	Building-Integrated Solar Thermal Systems 2016 , 713-721		1
20	Solar Water-Heating Systems 2014 , 257-321		1
19	Low Concentration Ratio Solar Collectors 2012 , 149-163		1
18	Solar Economic Analysis 2009 , 665-701		1
17	Simulation-Based Investigation of the Air Velocity in a Naturally Ventilated BIPV System. <i>Springer Proceedings in Energy</i> , 2018 , 201-217	0.2	1
16	Comparison of the Simulated Performance of Solar Water Heaters by Using Tmy and Mean Monthly Data 2000 , 1011-1014		1
15	Water, the Raw Material for Desalination 2016 , 21-102		1
14	Solar Thermal Systems: Components and Applications Introduction 2020 , 1-1		0
13	A design tool for a parabolic trough collector system for industrial process heat based on dynamic simulation. <i>Renewable Energy</i> , 2022 , 183, 502-514	8.1	0
12	Solar Thermal Energy: History 2022 , 7-19		0
11	Machine Learning and Deep Learning for Photovoltaic Applications 2022 , 1-20		0
10	Neural Network Modeling of Energy Systems 2013 ,		
9	Solar Space Heating and Cooling Systems 2020 ,		
8	Soft Computing in Absorption Cooling Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2011 , 65-95	0.7	

- 7 Modeling and Simulation of Passive and Active Solar Thermal Systems **2021**,
- 6 Low Concentration Ratio Solar Collectors **2012**, 183-197
- 5 Artificial intelligence techniques: Machine learning and deep learning algorithms **2022**, 43-83
- 4 Forecasting of solar radiation using machine learning and deep learning algorithms **2022**, 85-111
- 3 Internet of things (IoT) and embedded systems for photovoltaic systems **2022**, 267-329
- 2 Solar radiation and photovoltaic systems: Modeling and simulation **2022**, 1-41
- 1 Optimization of photovoltaic systems based on artificial intelligence techniques **2022**, 149-182