Solar assisted air conditioning of buildings – an overv

Applied Thermal Engineering 27, 1734-1749

DOI: 10.1016/j.applthermaleng.2006.07.021

Citation Report

#	Article	IF	CITATIONS
1	Solar cooling plants: how to arrange solar collectors, absorption chillers and the load. International Journal of Low-Carbon Technologies, 2007, 2, 376-390.	1.2	12
2	Residential air conditioning and heating by means of enhanced solar collectors coupled to an adsorption system. Solar Energy, 2008, 82, 885-892.	2.9	71
3	Energy and carbon emission savings in Spanish housing air-conditioning using solar driven absorption system. Applied Thermal Engineering, 2008, 28, 1734-1744.	3.0	82
4	Model development and validation of a solar cooling plant. International Journal of Refrigeration, 2008, 31, 315-327.	1.8	50
5	Separation of Ammonia/Water/Sodium Hydroxide Mixtures Using Reverse Osmosis Membranes for Low Temperature Driven Absorption Chillers. Industrial & Engineering Chemistry Research, 2008, 47, 10020-10026.	1.8	11
6	Performance Analysis and Design Optimization of a Mini-Channel Evacuated-Tube Solar Collector. , 2008, , .		16
7	Solar Air Conditioning: A Review of Technological and Market Perspectives. Advances in Building Energy Research, 2008, 2, 123-157.	1.1	8
9	Hybrid Liquid Desiccant/Vapour Compression Air-Conditioning Systems: A Critical Review., 2008, , .		5
10	Aire Acondicionado Solar, para Conjunto de Viviendas en Mexicali, México. Informacion Tecnologica (discontinued), 2008, 19, .	0.1	4
11	Potential of Solar Thermal Energy for CCHP Systems. , 2009, , .		4
11	Potential of Solar Thermal Energy for CCHP Systems. , 2009, , .  Solar sorption cooling systems for residential applications: Options and guidelines. International Journal of Refrigeration, 2009, 32, 638-660.	1.8	140
	Solar sorption cooling systems for residential applications: Options and guidelines. International	1.8	
12	Solar sorption cooling systems for residential applications: Options and guidelines. International Journal of Refrigeration, 2009, 32, 638-660.		140
12	Solar sorption cooling systems for residential applications: Options and guidelines. International Journal of Refrigeration, 2009, 32, 638-660.  Solar-driven high temperature radiant cooling. Science Bulletin, 2009, 54, 978-985.  An hourly modelling framework for the assessment of energy sources exploitation and energy	4.3	140
12 13	Solar sorption cooling systems for residential applications: Options and guidelines. International Journal of Refrigeration, 2009, 32, 638-660.  Solar-driven high temperature radiant cooling. Science Bulletin, 2009, 54, 978-985.  An hourly modelling framework for the assessment of energy sources exploitation and energy converters selection and sizing in buildings. Energy and Buildings, 2009, 41, 1037-1050.  Construction and initial operation of the combined solar thermal and electric desiccant cooling	4.3 3.1	140 4 66
12 13 14	Solar sorption cooling systems for residential applications: Options and guidelines. International Journal of Refrigeration, 2009, 32, 638-660.  Solar-driven high temperature radiant cooling. Science Bulletin, 2009, 54, 978-985.  An hourly modelling framework for the assessment of energy sources exploitation and energy converters selection and sizing in buildings. Energy and Buildings, 2009, 41, 1037-1050.  Construction and initial operation of the combined solar thermal and electric desiccant cooling system. Solar Energy, 2009, 83, 1300-1311.  Energy and economic assessment of desiccant cooling systems coupled with single glazed air and hybrid PV/thermal solar collectors for applications in hot and humid climate. Solar Energy, 2009, 83,	4.3 3.1 2.9	140 4 66 59
12 13 14 15	Solar sorption cooling systems for residential applications: Options and guidelines. International Journal of Refrigeration, 2009, 32, 638-660.  Solar-driven high temperature radiant cooling. Science Bulletin, 2009, 54, 978-985.  An hourly modelling framework for the assessment of energy sources exploitation and energy converters selection and sizing in buildings. Energy and Buildings, 2009, 41, 1037-1050.  Construction and initial operation of the combined solar thermal and electric desiccant cooling system. Solar Energy, 2009, 83, 1300-1311.  Energy and economic assessment of desiccant cooling systems coupled with single glazed air and hybrid PV/thermal solar collectors for applications in hot and humid climate. Solar Energy, 2009, 83, 1828-1846.	4.3 3.1 2.9 2.9	140 4 66 59

#	Article	IF	Citations
20	Composite Sorbent of Methanol "Lithium Chloride in Mesoporous Silica Gel―for Adsorption Cooling Machines: Performance and Stability Evaluation. Industrial & Description Chemistry Research, 2009, 48, 6197-6202.	1.8	28
21	Numerical Evaluation and Optimization of the Combined Solar Thermal and Electric Desiccant Cooling System., 2009,,.		4
22	Experimental investigation and performance analysis on a solar adsorption cooling system with/without heat storage. Applied Energy, 2010, 87, 824-835.	5.1	75
23	Study on a compact silica gel–water adsorption chiller without vacuum valves: Design and experimental study. Applied Energy, 2010, 87, 2673-2681.	5.1	94
24	Study on a novel thermally driven air conditioning system with desiccant dehumidification and regenerative evaporative cooling. Building and Environment, 2010, 45, 2473-2484.	3.0	43
25	Water adsorption characteristics of novel materials for heat transformation applications. Applied Thermal Engineering, 2010, 30, 1692-1702.	3.0	264
26	A model to design and optimize multi-energy systems in buildings at the design concept stage. Renewable Energy, 2010, 35, 644-655.	4.3	141
27	Theoretical and experimental investigation of the performance of a desiccant air-conditioning system. Renewable Energy, 2010, 35, 1368-1375.	4.3	80
28	Solar air conditioning systems and their applicabilityâ€"An exergy approach. Resources, Conservation and Recycling, 2010, 55, 74-82.	5.3	39
29	Technical development of rotary desiccant dehumidification and air conditioning: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 130-147.	8.2	291
30	Review of passive solar heating and cooling technologies. Renewable and Sustainable Energy Reviews, 2010, 14, 781-789.	8.2	328
31	Parabolic-trough solar collectors and their applications. Renewable and Sustainable Energy Reviews, 2010, 14, 1695-1721.	8.2	865
32	Design of a solar absorption cooling system in a Greek hospital. Energy and Buildings, 2010, 42, 265-272.	3.1	110
33	Design and experimental testing of the performance of an outdoor LiBr/H2O solar thermal absorption cooling system with a cold store. Solar Energy, 2010, 84, 735-744.	2.9	158
34	Solar absorption cooling plant in Seville. Solar Energy, 2010, 84, 1503-1512.	2.9	142
35	Development and construction of the novel solar thermal desiccant cooling system incorporating hot water production. Applied Energy, 2010, 87, 478-486.	5.1	78
36	Experimental investigation of a solar cooling absorption system operating without any backup system under tropical climate. Energy and Buildings, 2010, 42, 774-782.	3.1	63
37	Experimental validation of a simplified approach for a desiccant wheel model. Energy and Buildings, 2010, 42, 1719-1725.	3.1	70

#	Article	IF	CITATIONS
38	A systematic tool for the minimization of the life cycle impact of solar assisted absorption cooling systems. Energy, 2010, 35, 3849-3862.	4.5	63
39	Analysis of a New Dissipation System for a Solar Cooling Installation. Journal of Thermodynamics, 2010, 2010, 1-6.	0.8	11
40	Energy Resources and Systems. , 2011, , .		46
42	Initial Operation and Performance Evaluation of the Developed Solar Thermal and Electric Desiccant Cooling System. Experimental Heat Transfer, 2011, 24, 59-87.	2.3	8
43	Direct Solar Energy. , 2011, , 333-400.		25
44	Solar space heating and cooling for Spanish housing: Potential energy savings and emissions reduction. Solar Energy, 2011, 85, 2622-2641.	2.9	35
45	Case study and theoretical analysis of a solar driven two-stage rotary desiccant cooling system assisted by vapor compression air-conditioning. Solar Energy, 2011, 85, 2997-3009.	2.9	101
46	A review for research and new design options of solar absorption cooling systems. Renewable and Sustainable Energy Reviews, 2011, 15, 4416-4423.	8.2	146
47	Low-grade heat conversion into power using organic Rankine cycles – A review of various applications. Renewable and Sustainable Energy Reviews, 2011, 15, 3963-3979.	8.2	938
48	A key review on present status and future directions of solar energy studies and applications in Saudi Arabia. Renewable and Sustainable Energy Reviews, 2011, 15, 5021-5050.	8.2	166
49	Proposal of a control strategy for desiccant air-conditioning systems. Energy, 2011, 36, 5666-5676.	4.5	18
50	Experimental investigation on a one-rotor two-stage desiccant cooling/heating system driven by solar air collectors. Applied Thermal Engineering, 2011, 31, 3677-3683.	3.0	42
51	Experimental evaluation of a direct air-cooled lithium bromide–water absorption prototype for solar air conditioning. Applied Thermal Engineering, 2011, 31, 3358-3368.	3.0	58
52	Solid desiccant air-conditioning systems – Design parameters. Energy, 2011, 36, 2399-2406.	4.5	73
53	Development and Progress in Solar Cooling Technologies with Sorption Systems. Chemie-Ingenieur-Technik, 2011, 83, 1853-1863.	0.4	11
54	Experimental diagnosis of the influence of operational variables on the performance of a solar absorption cooling system. Applied Energy, 2011, 88, 1447-1454.	5.1	28
55	Monitoring and simulation of an existing solar powered absorption cooling system in Zaragoza (Spain). Applied Thermal Engineering, 2011, 31, 28-35.	3.0	76
56	Central air conditioning based on adsorption and solar energy. Applied Thermal Engineering, 2011, 31, 50-58.	3.0	21

#	Article	IF	Citations
57	Experimental performance of a liquid desiccant dehumidification system under tropical climates. Energy Conversion and Management, 2011, 52, 2461-2466.	4.4	109
58	A review of thermally activated cooling technologies for combined cooling, heating and power systems. Progress in Energy and Combustion Science, 2011, 37, 172-203.	15.8	355
59	Stationary analysis of a solar LiBr–H2O absorption refrigeration system. International Journal of Refrigeration, 2011, 34, 518-526.	1.8	24
60	New method for COP optimization in water- and air-cooled single and double effect LiBr–water absorption machines. International Journal of Refrigeration, 2011, 34, 1348-1359.	1.8	48
61	Simulation and experimental investigation of solar absorption cooling system in Reunion Island. Applied Energy, 2011, 88, 831-839.	5.1	75
62	Experimental evaluation of the new solid desiccant heat pump system in Asia-Pacific climatic conditions. Applied Thermal Engineering, 2011, 31, 243-257.	3.0	37
63	Solar cooling for small office buildings: Comparison of solar thermal and photovoltaic options for two different European climates. Renewable Energy, 2011, 36, 1329-1338.	4.3	67
64	The role of the thermally activated desiccant cooling technologies in the issue of energy and environment. Renewable and Sustainable Energy Reviews, 2011, 15, 2095-2122.	8.2	114
65	Comparative Analysis of Solar Thermal Cooling and Solar Photovoltaic Cooling Systems. , 2011, , .		1
66	Energy consumption of air conditioners at different temperature set points., 2011,,.		5
67	Evaluación de una Instalación de Refrigeración por Absorción con EnergÃa Solar. Informacion Tecnologica (discontinued), 2011, 22, 39-44.	0.1	5
68	Solar Energy Fundamentals. Advances in Industrial Control, 2012, , 1-23.	0.4	19
69	Dynamic Simulation of an Ejector-Based Cooling System for Residential Solar Air-Conditioning. , 2012, , .		1
70	A Novel Solar-Assisted Air-Conditioner System for Energy Savings with Performance Enhancement. Procedia Engineering, 2012, 49, 116-123.	1.2	16
71	Concentrating solar technologies for industrial process heat and cooling., 2012,, 602-619.		11
72	Investigation of a solar cooling installation in Tunisia. Applied Energy, 2012, 98, 138-148.	5.1	73
73	Decision making tool to design solar cooling system coupled with building under tropical climate. Energy and Buildings, 2012, 49, 28-36.	3.1	9
74	Review of PCM based cooling technologies for buildings. Energy and Buildings, 2012, 49, 37-49.	3.1	258

#	ARTICLE	IF	Citations
75	Combined simulation–optimization methodology for the design of environmental conscious absorption systems. Computers and Chemical Engineering, 2012, 46, 205-216.	2.0	19
76	Development of a 5 kW Cooling Capacity Ammonia-water Absorption Chiller for Solar Cooling Applications. Energy Procedia, 2012, 30, 35-43.	1.8	44
77	Performance comparison of six solar-powered air-conditioners operated in five places. Energy, 2012, 46, 471-483.	4.5	17
78	Solar thermal air conditioning technology reducing the footprint of solar thermal air conditioning. Renewable and Sustainable Energy Reviews, 2012, 16, 6352-6383.	8.2	129
79	Analysis of solar desiccant cooling system for an institutional building in subtropical Queensland, Australia. Renewable and Sustainable Energy Reviews, 2012, 16, 6423-6431.	8.2	62
80	A review and new approach to minimize the cost of solar assisted absorption cooling system. Renewable and Sustainable Energy Reviews, 2012, 16, 6725-6731.	8.2	53
81	Experimental validation of a fully solar-driven triple-state absorption system in small residential buildings. Energy and Buildings, 2012, 55, 227-237.	3.1	22
82	Emerging Trends in Science, Engineering and Technology. Lecture Notes in Mechanical Engineering, 2012, , .	0.3	0
83	Application of Solar Energy in the Processes of Gas, Water and Soil Treatment., 2012,,.		5
84	Feasibility Study of Localized Heating and Cooling Systems Totally Powered by Solar Energy. , 2012, , .		0
85	MOFs for Use in Adsorption Heat Pump Processes. European Journal of Inorganic Chemistry, 2012, 2012, 2625-2634.	1.0	286
86	Use of regenerative evaporative cooling to improve the performance of a novel one-rotor two-stage solar desiccant dehumidification unit. Applied Thermal Engineering, 2012, 42, 11-17.	3.0	25
87	Development and lab-test of a mobile adsorption air-conditioner. International Journal of Refrigeration, 2012, 35, 701-708.	1.8	73
88	An innovative solar-driven directly air-cooled LiBr–H 2 O absorption chiller prototype for residential use. Energy and Buildings, 2012, 47, 1-11.	3.1	73
89	Case study of a two-stage rotary desiccant cooling/heating system driven by evacuated glass tube solar air collectors. Energy and Buildings, 2012, 47, 107-112.	3.1	68
90	Research on an adsorption cooling system supplied by solar energy. Energy and Buildings, 2012, 51, 15-20.	3.1	38
91	A new thermal–hydraulic process for solar cooling. Energy, 2012, 41, 104-112.	4.5	13
92	Experimental evaluation of a low-power direct air-cooled double-effect LiBr–H2O absorption prototype. Energy, 2012, 37, 737-748.	4.5	31

#	Article	IF	CITATIONS
93	Parametric analysis of components effectiveness on desiccant cooling system performance. Energy, 2012, 38, 157-166.	4.5	39
94	Energy performance evaluation of a demo solar desiccant cooling system with heat recovery for the regeneration of the adsorption material. Renewable Energy, 2012, 44, 40-52.	4.3	60
95	Study and optimization of a solar subcritical organic Rankine cycle. Renewable Energy, 2012, 48, 100-109.	4.3	56
96	Renewable energy: Progressing towards a net zero energy island, the case of Reunion Island. Renewable and Sustainable Energy Reviews, 2012, 16, 426-442.	8.2	105
97	Development of adsorption air-conditioning technology using modified activated carbon – A review. Renewable and Sustainable Energy Reviews, 2012, 16, 3355-3363.	8.2	35
98	Prospects for solar cooling – An economic and environmental assessment. Solar Energy, 2012, 86, 1287-1299.	2.9	174
99	LCA of a solar heating and cooling system equipped with a small water–ammonia absorption chiller. Solar Energy, 2012, 86, 1491-1503.	2.9	61
100	Programming MOFs for water sorption: amino-functionalized MIL-125 and UiO-66 for heat transformation and heat storage applications. Dalton Transactions, 2013, 42, 15967.	1.6	238
101	Solar Cooling Systems. , 2013, , 441-494.		1
102	Comparison study of solar cooling technologies for an institutional building in subtropical Queensland, Australia. Renewable and Sustainable Energy Reviews, 2013, 23, 421-430.	8.2	33
103	An overview of solar assisted air conditioning in Queensland's subtropical regions, Australia. Renewable and Sustainable Energy Reviews, 2013, 26, 781-804.	8.2	46
104	Grafting of hydrophilic ethylene glycols or ethylenediamine on coordinatively unsaturated metal sites in MIL-100(Cr) for improved water adsorption characteristics. Inorganica Chimica Acta, 2013, 407, 145-152.	1.2	<b>7</b> 5
105	Energy consumption of air conditioners at different temperature set points. Energy and Buildings, 2013, 65, 412-418.	3.1	65
106	Experimental study with operational solar-sorption cooling. International Journal of Energy Research, 2013, 37, 673-682.	2.2	3
107	Liquid absorption and solid adsorption system for household, industrial and automobile applications: A review. Renewable and Sustainable Energy Reviews, 2013, 28, 836-847.	8.2	35
108	Experimental performance of indirect air–liquid membrane contactors for liquid desiccant cooling systems. Energy, 2013, 57, 319-325.	4.5	42
109	First results of a coated heat exchanger for the use in dehumidification and cooling processes. Applied Thermal Engineering, 2013, 61, 878-883.	3.0	31
110	Innovative approach and performance analysis using LabVIEW in solar assisted vapour absorption cooling system. , 2013, , .		1

#	Article	IF	CITATIONS
111	Assessment of solar assisted air conditioning in Central Queensland's subtropical climate, Australia. Renewable Energy, 2013, 50, 334-341.	4.3	34
112	Multi-objective optimization of integrated solar absorption cooling and heating systems for medium-sized office buildings. Renewable Energy, 2013, 52, 67-78.	4.3	54
113	New solid desiccant solar air conditioning unit in Tunisia: Design andÂsimulation study. Applied Thermal Engineering, 2013, 58, 656-663.	3.0	22
114	Influence parameters on the performance of an experimental solar-assisted ground-coupled absorption heat pump in cooling operation. Energy and Buildings, 2013, 66, 282-288.	3.1	22
115	Solar thermal market in Taiwan. Energy Policy, 2013, 55, 477-482.	4.2	11
116	A non-adiabatic desiccant wheel: Modeling and experimental validation. Applied Thermal Engineering, 2013, 61, 178-185.	3.0	37
117	Modelling to predict future energy performance of solar thermal cooling systems for building applications in the North East of England. Applied Thermal Engineering, 2013, 57, 81-89.	3.0	18
118	Use of parabolic trough solar collectors for solar refrigeration and air-conditioning applications. Renewable and Sustainable Energy Reviews, 2013, 20, 103-118.	8.2	158
119	Water Sorption Cycle Measurements on Functionalized MIL-101Cr for Heat Transformation Application. Chemistry of Materials, 2013, 25, 790-798.	3.2	238
121	Preliminary experimental characterization of a three-phase absorption heat pump. International Journal of Refrigeration, 2013, 36, 717-729.	1.8	22
122	Feasible study of a self-cooled solid desiccant cooling system based onÂdesiccant coated heat exchanger. Applied Thermal Engineering, 2013, 58, 281-290.	3.0	41
123	Postsynthetic tuning of hydrophilicity in pyrazolate MOFs to modulate water adsorption properties. Energy and Environmental Science, 2013, 6, 2172.	15.6	138
124	An experimental investigation on the integration of two-stage dehumidification and regenerative evaporative cooling. Applied Energy, 2013, 102, 1218-1228.	5.1	35
125	Adsorption Cooling With Multi-Stage Desiccant Processes. , 2013, , .		0
126	Comparative Analysis of Solar Thermal Cooling and Solar Photovoltaic Cooling Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	13
127	Building automation: Photovoltaic assisted thermal comfort management system for energy saving. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012013.	0.2	0
128	Review on absorption technology with emphasis on small capacity absorption machines. Thermal Science, 2013, 17, 739-762.	0.5	27
129	Experimental study on operation characteristics of bubble pump with different working fluids. , 2013, , .		1

#	Article	IF	CITATIONS
130	Temperature moderation in a multistorey building by melting of a phase-change material. Archives of Thermodynamics, 2013, 34, 85-101.	1.0	0
131	Solar energy conversion with thermal cycles. , 2013, , 431-502.		3
132	Prismatic louver active fa $\tilde{A}$ sades for natural illumination and thermal energy gain in high-rise and commercial buildings. , 2013, , .		3
133	Investigation of Absorption Cooling Application Powered by Solar Energy in the South Coast Region of Turkey. EPJ Web of Conferences, 2013, 45, 01100.	0.1	3
134	Sustainability Challenges from Climate Change and Air Conditioning Use in Urban Areas. Sustainability, 2013, 5, 3116-3128.	1.6	80
135	Simulation Analysis of the Four Configurations of Solar Desiccant Cooling System Using Evaporative Cooling in Tropical Weather in Malaysia. International Journal of Photoenergy, 2014, 2014, 1-14.	1.4	36
136	Performance assessment of a solar assisted desiccant cooling system. Thermal Science, 2014, 18, 563-576.	0.5	23
137	Simulation and Comparative Study of a Hybrid Cooling Solar – Gas with Heat Storage. Energy Procedia, 2014, 57, 2646-2655.	1.8	2
138	District Cooling Using Central Tower Power Plant. Energy Procedia, 2014, 49, 1800-1809.	1.8	8
139	Modeling of concentrating photovoltaic and thermal systems. Progress in Photovoltaics: Research and Applications, 2014, 22, 427-439.	4.4	33
140	The HIGH-COMBI project: High solar fraction heating and cooling systems with combination of innovative components and methods. Renewable and Sustainable Energy Reviews, 2014, 29, 463-472.	8.2	29
141	Solar cooling: PV or thermal? A thermodynamic and economical analysis. International Journal of Refrigeration, 2014, 39, 38-47.	1.8	75
142	Annual operating energy savings of liquid desiccant and evaporative-cooling-assisted 100% outdoor air system. Energy and Buildings, 2014, 76, 538-550.	3.1	64
143	Development of Collector Integrated Sorption Modules for Solar Heating and Cooling: Performance Simulation. Energy Procedia, 2014, 48, 67-76.	1.8	8
144	Economic evaluation of solar thermal and photovoltaic cooling systems through simulation in different climatic conditions: An analysis in three different cities in Europe. Energy and Buildings, 2014, 70, 207-223.	3.1	73
145	Effect of inter-cooling on the performance and economics of a solar energy assisted hybrid air conditioning system with six stages one-rotor desiccant wheel. Energy Conversion and Management, 2014, 78, 882-896.	4.4	33
146	Residential solar air conditioning: Energy and exergy analyses of an ammonia–water absorption cooling system. Applied Thermal Engineering, 2014, 62, 424-432.	3.0	120
147	Solar cooling with water–ammonia absorption chillers and concentrating solar collector – Operational experience. International Journal of Refrigeration, 2014, 39, 57-76.	1.8	43

#	Article	IF	CITATIONS
148	Novel experimental methodology for the characterization of thermodynamic performance of advanced working pairs for adsorptive heat transformers. Applied Thermal Engineering, 2014, 72, 229-236.	3.0	34
149	Energy and exergy performance analysis of a marine rotary desiccant air-conditioning system based on orthogonal experiment. Energy, 2014, 77, 953-962.	4.5	52
150	Integrated HVAC and DHW production systems for Zero Energy Buildings. Renewable and Sustainable Energy Reviews, 2014, 40, 515-541.	8.2	75
151	Recent progress on desiccant materials for solid desiccant cooling systems. Energy, 2014, 74, 280-294.	4.5	230
152	Experimental based energy performance analysis and life cycle assessment for solar absorption cooling system at University of Californian, Merced. Energy and Buildings, 2014, 82, 746-757.	3.1	49
153	Performance of desiccant air conditioning system with geothermal energy under different climatic conditions. Energy Conversion and Management, 2014, 88, 464-475.	4.4	48
154	Solar cooling between thermal and photovoltaic: An energy and economic comparative study in the Mediterranean conditions. Energy, 2014, 73, 453-464.	4.5	74
155	Review of solar thermal air conditioning technologies. International Journal of Refrigeration, 2014, 39, 4-22.	1.8	117
156	Effect of windows on temperature moderation by a phase-change material (PCM) in a structure in winter. Energy Conversion and Management, 2014, 87, 1324-1331.	4.4	15
157	How to evaluate performance of net zero energy building – A literature research. Energy, 2014, 71, 1-16.	4.5	251
158	Solar-powered single-and double-effect directly air-cooled LiBr–H2O absorption prototype built as a single unit. Applied Energy, 2014, 130, 7-19.	5.1	33
159	On Standardizing Solar Cooling – Field Test in the Small Capacity Range. Energy Procedia, 2014, 48, 1027-1035.	1.8	6
160	Experimental exergetic performance evaluation of a novel solar assisted LiCl–H2O absorption cooling system. Energy and Buildings, 2014, 68, 138-146.	3.1	33
161	A Case Study Based Comparison between Solar Thermal and Solar Electric Cooling. Energy Procedia, 2015, 81, 1160-1170.	1.8	3
162	A capacitance sensor for the water content of desiccant wheels. , 2015, , .		0
163	Air Conditioning: A Renewable Energy Perspective. Applied Mechanics and Materials, 2015, 809-810, 694-699.	0.2	0
165	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780.	11.1	253
166	Energy and Greenhouse Gas Emission Assessment of Conventional and Solar Assisted Air Conditioning Systems. Sustainability, 2015, 7, 14710-14728.	1.6	7

#	Article	IF	CITATIONS
167	Electrical and Thermal Performance Analysis for a Highly Concentrating Photovoltaic/Thermal System. International Journal of Photoenergy, 2015, 2015, 1-10.	1.4	13
168	Economic and environmental assessment of solar air-conditioning systems in Morocco. Renewable and Sustainable Energy Reviews, 2015, 50, 770-781.	8.2	65
169	Performance study of a solar photovoltaic air conditioner in the hot summer and cold winter zone. Solar Energy, 2015, 117, 167-179.	2.9	57
170	Dynamic Simulation and Performance Analysis of Solar Cooling Systems in Italy. Energy Procedia, 2015, 81, 1171-1183.	1.8	12
171	A Hybrid Passive Cooling Wall System: Concept and Laboratory Testing Results. Energy Procedia, 2015, 78, 79-84.	1.8	14
172	Solar-Driven Sorption Chillers for Residential Space Cooling: A Review of Recent Developments and Possible Applications in Canada. , 2015, , .		0
173	District cooling network connected to a solar power tower. Applied Thermal Engineering, 2015, 79, 174-183.	3.0	22
174	Numerical simulation of combined solar passive heating and radiative cooling for a building. Building Simulation, 2015, 8, 239-253.	3.0	41
175	Performance analysis of a solar cooling plant based on a liquid desiccant evaporative cooler. International Journal of Refrigeration, 2015, 53, 163-176.	1.8	15
176	Multi-objective optimal design of a solar absorption cooling and heating system under life-cycle uncertainties. Sustainable Energy Technologies and Assessments, 2015, 11, 92-105.	1.7	29
177	Integration of Sorption Modules in Sydney Type Vacuum Tube Collector with Air as Heat Transfer Fluid. Energy Procedia, 2015, 70, 445-453.	1.8	4
178	Prediction of energetic and exergetic performance of double-effect absorption system. International Journal of Hydrogen Energy, 2015, 40, 15320-15327.	3.8	17
179	Experimental Investigation on a Solar-powered Absorption Radiant Cooling System. Energy Procedia, 2015, 70, 552-559.	1.8	14
180	A review of solar thermo-mechanical refrigeration and cooling methods. Renewable and Sustainable Energy Reviews, 2015, 51, 1428-1445.	8.2	97
181	Recent developments in solar assisted liquid desiccant evaporative cooling technologyâ€"A review. Energy and Buildings, 2015, 96, 95-108.	3.1	86
182	Application of desiccant systems for improving the performance of an evaporative cooling-assisted 100% outdoor air system in hot and humid climates. Journal of Building Performance Simulation, 2015, 8, 173-190.	1.0	11
183	Adsorption-Driven Heat Pumps: The Potential of Metal–Organic Frameworks. Chemical Reviews, 2015, 115, 12205-12250.	23.0	410
184	Control strategies for indoor environment quality and energy efficiency—a review. International Journal of Low-Carbon Technologies, 2015, 10, 305-312.	1.2	27

#	Article	IF	CITATIONS
185	Thermal Analysis of a Novel Integrated Air Conditioning System with Geothermal Energy. Journal of Energy Engineering - ASCE, 2015, 141, 04014030.	1.0	4
186	Evaluating the potential use of direct evaporative cooling in Australia. Energy and Buildings, 2015, 108, 185-194.	3.1	37
187	Recent trends in solar thermal sorption cooling system technology. Advances in Mechanical Engineering, 2015, 7, 168781401558612.	0.8	13
188	Experimental evaluation of a novel absorption heat pump module for solar cooling applications. Science and Technology for the Built Environment, 2015, 21, 323-331.	0.8	4
189	Metal–Organic Frameworks in Adsorption-Driven Heat Pumps: The Potential of Alcohols as Working Fluids. Langmuir, 2015, 31, 12783-12796.	1.6	123
190	Hierarchical embedding of micro-mesoporous MIL-101(Cr) in macroporous poly(2-hydroxyethyl) Tj ETQq1 1 0.78 applications. Microporous and Mesoporous Materials, 2015, 204, 242-250.	4314 rgBT 2.2	Overlock 1 56
191	Worldwide overview of solar thermal cooling technologies. Renewable and Sustainable Energy Reviews, 2015, 43, 763-774.	8.2	118
192	Investigation of separate or integrated provision of solar cooling and heating for use in typical low-rise residential building in subtropical Hong Kong. Renewable Energy, 2015, 75, 847-855.	4.3	14
193	Energy Management for Households With Solar Assisted Thermal Load Considering Renewable Energy and Price Uncertainty. IEEE Transactions on Smart Grid, 2015, 6, 301-314.	6.2	117
194	A review of thermal energy storage technologies and control approaches for solar cooling. Renewable and Sustainable Energy Reviews, 2015, 41, 975-995.	8.2	130
195	Other types of solar-powered cooling systems. , 2016, , 381-396.		0
196	Control Optimization of Solar Thermally Driven Chillers. Energies, 2016, 9, 864.	1.6	8
197	Photovoltaic-powered solar cooling systems. , 2016, , 227-250.		4
198	Hybrid storage designs for continuous operation of solar-powered LiBr-water absorption air-conditioning. International Journal of Energy Research, 2016, 40, 791-805.	2.2	7
199	Techno-Economic Analysis of Solar Cooling Systems for Residential Buildings in Italy. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.1	13
200	Solar community heating and cooling system with borehole thermal energy storage – Review of systems. Renewable and Sustainable Energy Reviews, 2016, 60, 1550-1561.	8.2	114
201	Experimental study of water vaporization occurring inside a channel of a smooth plate-type heat exchanger at subatmospheric pressure. Applied Thermal Engineering, 2016, 106, 180-191.	3.0	19
202	Phase change materials (PCM) for cooling applications in buildings: A review. Energy and Buildings, 2016, 129, 396-431.	3.1	559

#	Article	IF	CITATIONS
203	Modeling of waste heat powered energy system for container ships. Energy, 2016, 106, 408-421.	4.5	30
204	Energetic Analysis of Single Stage Lithium Bromide Water Absorption Refrigeration System. Procedia Technology, 2016, 23, 488-495.	1.1	16
205	Design, realization and testing of an adsorption refrigerator based on activated carbon/ethanol working pair. Applied Energy, 2016, 174, 15-24.	5.1	59
206	Performance evaluation of a solar adsorption chiller under different climatic conditions. Applied Energy, 2016, 175, 293-304.	5.1	68
207	Solar — Assisted air — Conditioning for energy saving in a feeder in Sulaimani governorate. , 2016, , .		0
208	Targeting Optimal Design and Operation of Solar Heated Industrial Processes: A MILP Formulation. Energy Procedia, 2016, 91, 668-680.	1.8	6
209	Performance study of a solar-assisted organic Rankine cycle using a dish-mounted rectangular-cavity tubular solar receiver. Applied Thermal Engineering, 2016, 108, 1298-1309.	3.0	84
210	Hybrid cooling systems: A review and an optimized selection scheme. Renewable and Sustainable Energy Reviews, 2016, 65, 57-80.	8.2	52
211	An illustrated review on solar absorption cooling experimental studies. Renewable and Sustainable Energy Reviews, 2016, 65, 443-458.	8.2	72
213	Review and recent improvements of solar sorption cooling systems. Energy and Buildings, 2016, 128, 22-37.	3.1	87
214	Solid desiccant dehumidification and regeneration methodsâ€"A review. Renewable and Sustainable Energy Reviews, 2016, 59, 73-83.	8.2	102
215	Liquid desiccant materials and dehumidifiers – A review. Renewable and Sustainable Energy Reviews, 2016, 56, 179-195.	8.2	207
216	Design of direct solar PV driven air conditioner. Renewable Energy, 2016, 88, 95-101.	4.3	59
217	Comparison of desiccant air conditioning systems with different indirect evaporative air coolers. Energy Conversion and Management, 2016, 117, 375-392.	4.4	67
218	A state-of-the-art review of solar air-conditioning systems. Renewable and Sustainable Energy Reviews, 2016, 60, 1351-1366.	8.2	39
219	A high performance desiccant dehumidification unit using solid desiccant coated heat exchanger with heat recovery. Energy and Buildings, 2016, 116, 583-592.	3.1	58
220	A simple model to predict the performance of a H2O–LiBr absorber operating with a microporous membrane. Energy, 2016, 96, 383-393.	4.5	27
221	Solar power technologies for sustainable electricity generation $\hat{a} \in A$ review. Renewable and Sustainable Energy Reviews, 2016, 55, 414-425.	8.2	358

#	Article	IF	Citations
222	Design, construction and operation of a solar powered ammonia–water absorption refrigeration system in Saudi Arabia. International Journal of Refrigeration, 2016, 62, 222-231.	1.8	51
223	Development of a dynamic artificial neural network model of an absorption chiller and its experimental validation. Renewable Energy, 2016, 86, 1009-1022.	4.3	34
224	Effect of supply/regeneration section area ratio on the performance of desiccant wheels in hot and humid climates: an experimental investigation. Heat and Mass Transfer, 2016, 52, 1175-1181.	1.2	21
225	Performance of a small-scale solar-powered adsorption cooling system. International Journal of Green Energy, 2017, 14, 75-85.	2.1	11
226	25 Years of cooling research in office buildings: Review for the integration of cooling strategies into the building façade (1990–2014). Renewable and Sustainable Energy Reviews, 2017, 71, 89-102.	8.2	49
227	Solar Heating and Cooling in Buildings – How Sustainable?. Procedia Manufacturing, 2017, 7, 92-97.	1.9	0
228	Model performance assessment and experimental analysis of a solar assisted cooling system. Solar Energy, 2017, 143, 43-62.	2.9	17
229	Exergy analysis of electrically- and thermally-driven engines to drive heat pumps: An exhaustive comparative study. International Journal of Refrigeration, 2017, 76, 313-327.	1.8	7
230	Solar collectors and adsorption materials aspects of cooling system. Renewable and Sustainable Energy Reviews, 2017, 73, 1300-1312.	8.2	41
231	Numerical and experimental study of a closed loop for ground heat exchanger coupled with heat pump system and a solar collector for heating a glass greenhouse in north of Tunisia. International Journal of Refrigeration, 2017, 76, 328-341.	1.8	21
232	Unsteady analysis for solar-powered hybrid storage LiBr-water absorption air-conditioning. Solar Energy, 2017, 144, 556-568.	2.9	27
233	Experimental analysis of hybrid and conventional air conditioning systems working in hot-humid climate. Applied Thermal Engineering, 2017, 118, 570-584.	3.0	7
234	Performance study of a quasi grid-connected photovoltaic powered DC air conditioner in a hot summer zone. Applied Thermal Engineering, 2017, 121, 1102-1110.	3.0	24
235	Design Optimization of a Sorption Integrated Sydney Type Vacuum Tube Collector. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.1	2
236	Experimental study on LiCl solution falling-film generation process outside a vertical tube. International Journal of Refrigeration, 2017, 79, 251-260.	1.8	3
237	Cooling mechanism of a solar assisted air conditioner: An investigation based on pressure–enthalpy chart. International Journal of Refrigeration, 2017, 80, 274-291.	1.8	5
238	Renewable energy sources for electricity generation in Mexico: A review. Renewable and Sustainable Energy Reviews, 2017, 78, 597-613.	8.2	75
239	Solar coolfacades: Framework for the integration of solar cooling technologies in the building envelope. Energy, 2017, 137, 353-368.	4.5	38

#	ARTICLE	IF	CITATIONS
240	Solar systems integrated with absorption heat pumps and thermal energy storages: state of art. Renewable and Sustainable Energy Reviews, 2017, 70, 492-505.	8.2	77
241	Experimental analysis of the performance of a medium temperature solar cooling plant. International Journal of Refrigeration, 2017, 80, 264-273.	1.8	11
242	Experimental and analytical study on an air-cooled single effect LiBr-H2O absorption chiller driven by evacuated glass tube solar collector for cooling application in residential buildings. Solar Energy, 2017, 151, 110-118.	2.9	69
243	Experimental investigations on a solar assisted liquid desiccant cooling system with indirect contact dehumidifier. Solar Energy, 2017, 153, 289-300.	2.9	45
244	Preliminary Investigations on a Novel Rotating Media Liquid-air Contacting Device without Liquid Pool. Energy Procedia, 2017, 109, 167-173.	1.8	2
245	Evaluation of the performance gap in industrial, residential & Evaluation of the performance gap in industrial, residential & Energy and Buildings, 2017, 148, 58-73.	3.1	93
246	A review for phase change materials (PCMs) in solar absorption refrigeration systems. Renewable and Sustainable Energy Reviews, 2017, 76, 105-137.	8.2	157
247	Solar cooling technologies. Design, application and performance of existing projects. Solar Energy, 2017, 154, 144-157.	2.9	53
248	Performance assessment and gained operational experiences of a residential scale solar thermal driven adsorption cooling system installed in hot arid area. Energy and Buildings, 2017, 138, 271-279.	3.1	12
250	Modeling and Analysis of Desiccant Wheel. , 2017, , 11-62.		3
251	Performance characteristics of thin-multilayer activated alumina bed. Applied Energy, 2017, 190, 29-42.	5.1	12
252	Numerical simulation and parametric study of different types of solar cooling systems under Mediterranean climatic conditions. Energy and Buildings, 2017, 138, 601-611.	3.1	44
253	Development of an optimization based design framework for microgrid energy systems. Energy, 2017, 140, 340-351.	4.5	27
254	Comparison of Mainsversus Standalone PV Electricity to Powera Residentialstandalone Solar Absorption Chillerin Australia. Energy Procedia, 2017, 110, 504-509.	1.8	2
255	Photovoltaic-thermal hybrid collector performance for direct trigeneration in a European building retrofit case study. Energy and Buildings, 2017, 152, 701-717.	3.1	24
256	A review about phase change material cold storage system applied to solar-powered air-conditioning system. Advances in Mechanical Engineering, 2017, 9, 168781401770584.	0.8	27
257	Identification and characterization of promising phase change materials for solar cooling applications. Solar Energy Materials and Solar Cells, 2017, 160, 225-232.	3.0	52
258	A study on heat absorbing and vapor generating characteristics of H2O/LiBr mixture in an evacuated tube. Applied Energy, 2017, 185, 294-299.	5.1	10

#	Article	IF	CITATIONS
259	Design and experimental evaluation of a parabolic-trough concentrating photovoltaic/thermal (CPVT) system with high-efficiency cooling. Renewable Energy, 2017, 101, 467-483.	4.3	74
260	Energy and parametric analysis of solar absorption cooling systems in various Moroccan climates. Case Studies in Thermal Engineering, 2017, 9, 28-39.	2.8	54
261	A review of photovoltaic thermal (PV/T) heat utilisation with low temperature desiccant cooling and dehumidification. Renewable and Sustainable Energy Reviews, 2017, 67, 1-14.	8.2	68
262	Energy and Exergy Analysis of a Hybrid Solar System in Terms of Thermal Energy Production and Cooling., 2017,,.		1
263	Experimental investigation on an open sorption thermal storage system for space heating. Energy, 2017, 141, 2421-2433.	4.5	40
264	Experiment of water vapor adsorption/desorption rate in a desiccant rotor regenerated directly by concentrated artificial solar light irradiation. Journal of Thermal Science and Technology, 2017, 12, JTST0037-JTST0037.	0.6	0
265	Parametric Analysis of Design Parameter Effects on the Performance of a Solar Desiccant Evaporative Cooling System in Brisbane, Australia. Energies, 2017, 10, 849.	1.6	14
266	Comparison of Different Solar-Assisted Air Conditioning Systems for Australian Office Buildings. Energies, 2017, 10, 1463.	1.6	32
267	A Solar Heating and Cooling System in a Nearly Zero-Energy Building: A Case Study in China. International Journal of Photoenergy, 2017, 2017, 1-11.	1.4	4
268	Heat-Driven Cooling Technologies. , 2017, , 191-212.		15
269	Techno-economic assessment of different cooling systems for office buildings in tropical large city considering on-site biogas utilization. Journal of Cleaner Production, 2018, 184, 774-787.	4.6	10
270	Experimental investigation on a novel air-cooled single effect LiBr-H2O absorption chiller with adiabatic flash evaporator and adiabatic absorber for residential application. Solar Energy, 2018, 159, 579-587.	2.9	7
271	A concise overview of heliostat fields-solar thermal collectors: Current state of art and future perspective. International Journal of Energy Research, 2018, 42, 3145-3163.	2.2	19
272	Solar energy assisted desiccant air conditioning system with PCM as a thermal storage medium. Renewable Energy, 2018, 122, 632-642.	4.3	39
273	Energetic, economic and environmental study of cooling capacity for absorption subsystem in solar absorption-subcooled compression hybrid cooling system based on data of entire working period. Energy Conversion and Management, 2018, 167, 165-175.	4.4	33
274	A review of the applications of phase change materials in cooling, heating and power generation in different temperature ranges. Applied Energy, 2018, 220, 242-273.	5.1	434
275	A critical review on application of solar energy as renewable regeneration heat source in solid desiccant – vapor compression hybrid cooling system. Journal of Building Engineering, 2018, 18, 107-124.	1.6	76
276	Techno-economic analysis of a hybrid solar PV-grid powered air-conditioner for daytime office use in hot humid climates – A case study in Kumasi city, Ghana. Solar Energy, 2018, 165, 65-74.	2.9	46

#	Article	IF	Citations
277	Recycling construction and industrial landfill waste material for backfill in horizontal ground heat exchanger systems. Energy, 2018, 151, 556-568.	4.5	29
278	Modeling of an Improved Liquid Desiccant Solar Cooling System by Artificial Neural Network. Lecture Notes in Networks and Systems, 2018, , 337-348.	0.5	0
279	Investigation of the effect of ambient conditions on the performance of solid desiccant cooling cycles. International Journal of Sustainable Energy, 2018, 37, 67-80.	1.3	0
280	Active and passive cooling methods for dwellings: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 531-544.	8.2	114
281	A review on energy conscious designs of building façades in hot and humid climates: Lessons for (and) Tj ETQqC	) 0 <sub>8.2</sub> rgBT	Oyerlock 10
282	Field testing of a novel hybrid solar assisted desiccant evaporative cooling system coupled with a vapour compression heat pump. Applied Thermal Engineering, 2018, 130, 830-846.	3.0	15
283	Performance assessment of a solar-powered adsorption air conditioning system. IOP Conference Series: Materials Science and Engineering, 2018, 444, 082027.	0.3	0
284	Adsorption Refrigeration Technologies. , 0, , .		9
285	Desiccant materials for air conditioning applications - A review. IOP Conference Series: Materials Science and Engineering, 0, 404, 012005.	0.3	18
286	Feasibility Study of Self-Sufficient Solar Cooling Façade Applications in Different Warm Regions. Energies, 2018, 11, 1475.	1.6	7
287	Performance Characteristics of Solid-Desiccant Evaporative Cooling Systems. Energies, 2018, 11, 2574.	1.6	18
288	Metal-Organic Frameworks as advanced moisture sorbents for energy-efficient high temperature cooling. Scientific Reports, 2018, 8, 15284.	1.6	113
289	Tunable Metal–Organic Frameworks for Heat Transformation Applications. Nanomaterials, 2018, 8, 661.	1.9	32
290	Solar-powered absorption chillers: A comprehensive and critical review. Energy Conversion and Management, 2018, 171, 59-81.	4.4	166
291	Comparison of the performance of two different DOAS configurations involving conventional and renewable energies. Solar Energy, 2018, 169, 284-296.	2.9	9
292	Renewable energy for liquid desiccants air conditioning system: A review. Renewable and Sustainable Energy Reviews, 2018, 93, 364-379.	8.2	82
293	Performance investigation of an internally cooled desiccant wheel. Applied Energy, 2018, 224, 382-397.	5.1	36
294	Review of humidity control technologies in buildings. Journal of Building Engineering, 2018, 19, 539-551.	1.6	47

#	Article	IF	CITATIONS
295	Sorption Thermal Energy Storage. , 2018, , 1109-1161.		1
296	In Silico Screening of Metal–Organic Frameworks for Adsorption-Driven Heat Pumps and Chillers. ACS Applied Materials & Interfaces, 2018, 10, 27074-27087.	4.0	32
297	Smart Control System to Optimize Time of Use in a Solar-Assisted Air-Conditioning by Ejector for Residential Sector. Applied Sciences (Switzerland), 2018, 8, 350.	1.3	1
298	Comparison of ab- and adsorbents for low temperature heat driven sorption cooling machines. International Journal of Refrigeration, 2018, 95, 133-145.	1.8	4
299	A review of solar absorption cooling systems combined with various auxiliary energy devices. Journal of Thermal Analysis and Calorimetry, 2018, 134, 2197-2212.	2.0	26
300	Performance analysis of an advanced variable configuration solar cooling plant with an MPC controller. Part A: Model and validation. International Journal of Refrigeration, 2018, 93, 213-223.	1.8	4
301	Effects of functionalization on the performance of metal-organic frameworks for adsorption-driven heat pumps by molecular simulations. Chemical Engineering Science, 2019, 208, 115143.	1.9	5
302	Investigation on the performance of R1234ze(E) in absorption refrigeration and ejection refrigeration systems. Applied Thermal Engineering, 2019, 161, 114120.	3.0	9
303	Dehumidification Potential of a Solid Desiccant Based Evaporative Cooling System with an Enthalpy Exchanger Operating in Subtropical and Tropical Climates. Energies, 2019, 12, 2704.	1.6	19
304	Life cycle assessment of a solar absorption air-conditioning system. Journal of Cleaner Production, 2019, 240, 118206.	4.6	36
305	Performance indicators of photovoltaic heat-pumps. Heliyon, 2019, 5, e02691.	1.4	11
306	Simulating and experimental research on a low-concentrating PV/T triple-generation system. Energy Conversion and Management, 2019, 199, 111942.	4.4	19
307	Study of solar irradiation distribution in narrow channel of desiccant rotor. AIP Advances, 2019, 9, 075223.	0.6	0
308	Solid- and gas-side resistances of a silica-gel desiccant wheel. Energy Procedia, 2019, 160, 139-146.	1.8	5
309	Significance of Temperature and Humidity Control for Agricultural Products Storage: Overview of Conventional and Advanced Options. International Journal of Food Engineering, 2019, 15, .	0.7	27
310	Experimental Analysis of Vapour Absorption Generator integrated with Thermal Energy Storage system. Materials Today: Proceedings, 2019, 16, 1158-1167.	0.9	4
311	Techno-economic analysis of an air conditioning heat pump powered by photovoltaic panels and the grid. Solar Energy, 2019, 180, 169-179.	2.9	27
312	Model predictive control of a high efficiency solar thermal cooling system with thermal storage. Energy and Buildings, 2019, 196, 214-226.	3.1	17

#	Article	IF	CITATIONS
313	Energy efficiency and cost saving opportunities in public and commercial buildings in developing countries – The case of air-conditioners in Ghana. Journal of Cleaner Production, 2019, 230, 937-944.	4.6	34
314	Pilot-scale experimental study of an innovative low-energy and low-cost cooling system for buildings. Applied Thermal Engineering, 2019, 157, 113665.	3.0	11
315	Technoâ€economic analysis of applying linear parabolic and flat plate solar collectors for heating a building and their comparative evaluation. Environmental Progress and Sustainable Energy, 2019, 38, 13121.	1.3	5
316	Solar Cooling Technologies., 0, , .		5
317	Experimental evaluation of a 3 kW absorption chiller prototype. Nigerian Journal of Technology, 2019, 38, 334.	0.2	0
318	Experimental Evaluation of Solar/Gas HybridPowered Absorption Air Conditioning System. Nigerian Journal of Technological Development, 2019, 16, 185.	0.3	1
319	The Influence of an Integrated Driving on the Performance of Different Passive Heating and Cooling Methods for Buildings. Buildings, 2019, 9, 224.	1.4	6
320	The potential of photovoltaic systems to reduce energy costs for office buildings in time-dependent and peak-load-dependent tariffs. Sustainable Cities and Society, 2019, 44, 871-879.	5.1	34
321	Development of a solar-driven diffusion absorption chiller. Solar Energy, 2019, 177, 483-493.	2.9	10
322	Adsorptive heat storage and amplification: New cycles and adsorbents. Energy, 2019, 167, 440-453.	4.5	47
323	Comprehensive strategies for performance improvement of adsorption air conditioning systems: A review. Renewable and Sustainable Energy Reviews, 2019, 99, 138-158.	8.2	54
324	COOLFACADE: State-of-the-art review and evaluation of solar cooling technologies on their potential for façade integration. Renewable and Sustainable Energy Reviews, 2019, 101, 395-414.	8.2	41
325	Feasibility of a hybrid BIPV/T and thermal wheel system for exhaust air heat recovery: Energy and exergy assessment and multi-objective optimization. Applied Thermal Engineering, 2019, 146, 104-122.	3.0	37
326	Parametric Analysis of Solar Heating and Cooling Systems for Residential Applications. Heat Transfer Engineering, 2020, 41, 1052-1074.	1.2	4
327	Thermal performance of desiccant-based solar air-conditioning system with silica gel coating. Environment, Development and Sustainability, 2020, 22, 281-296.	2.7	6
328	Comparison of solar assisted heat pump solutions for office building applications in Northern climate. Renewable Energy, 2020, 147, 1392-1417.	4.3	29
329	Applicability analysis of solar heating system in China based on a reliability-based optimization method for auxiliary heater capacity. Sustainable Cities and Society, 2020, 53, 101930.	5.1	6
330	Energy and exergy evaluation of triple-effect H <sub>2</sub> O/LiBr absorption cooling system. International Journal of Ambient Energy, 2022, 43, 3626-3637.	1.4	3

#	ARTICLE	IF	CITATIONS
331	Effect of design and operating parameters on thermal performance of low-temperature direct absorption solar collectors: a review. Journal of Thermal Analysis and Calorimetry, 2021, 146, 993-1013.	2.0	12
332	Investigation on heat and mass transfer characteristics for a zeolite-coated heat exchanger using comparatively low-temperature energy: Heating humidification mode and cooling dehumidification mode. Indoor and Built Environment, 2021, 30, 1486-1502.	1.5	4
333	Energy and economic assessment of a solar air-conditioning process for thermal comfort requirements. Solar Energy, 2020, 208, 101-114.	2.9	11
334	Study on regional applicability of dehumidification air conditioning system with different stage regeneration modes. IOP Conference Series: Materials Science and Engineering, 2020, 789, 012026.	0.3	0
335	Energetic, Economic and Environmental (3E) Assessment and Design of Solar-Powered HVAC Systems in Pakistan. Energies, 2020, 13, 4333.	1.6	10
336	Renewable Energy Application for Solar Air Conditioning. , 2020, , .		1
337	Alternative Refrigerants for Solar Absorption Air-Conditioning. International Journal of Air-Conditioning and Refrigeration, 2020, 28, 2050001.	0.8	0
338	Solar cooling technologies: State of art and perspectives. Energy Conversion and Management, 2020, 214, 112896.	4.4	<b>7</b> 5
339	Experimental assessment of heat and mass transfer characteristics of solar-powered adiabatic liquid desiccant dehumidifier and regenerator. International Journal of Low-Carbon Technologies, 2020, 15, 477-495.	1.2	0
340	Evaluation of Metal–Organic Frameworks as Potential Adsorbents for Solar Cooling Applications. Applied System Innovation, 2020, 3, 26.	2.7	10
341	Design and Thermo-Economic Comparisons of an Absorption Air Conditioning System Based on Parabolic Trough and Evacuated Tube Solar Collectors. Energies, 2020, 13, 3198.	1.6	11
342	Absorption cooling systems – Review of various techniques for energy performance enhancement. AEJ - Alexandria Engineering Journal, 2020, 59, 707-738.	3.4	119
343	Thermo-Economic Analysis of a Hybrid Ejector Refrigerating System Based on a Low Grade Heat Source. Energies, 2020, 13, 562.	1.6	13
344	Design of a 35 kW Solar Cooling Demonstration Facility for a Hotel in Spain. Applied Sciences (Switzerland), 2020, 10, 496.	1.3	12
345	Modeling and simulation of a small-scale solar-powered absorption cooling system in three cities with a tropical climate. International Journal of Low-Carbon Technologies, 2020, 15, 1-16.	1.2	7
346	Comparison of optimal oriented façade integrated solar cooling systems in Australian climate zones. Solar Energy, 2020, 198, 385-398.	2.9	16
347	Performance assessment of solar powered hybrid solid desiccant and dehumidification integrated thermally cooling system using TRNSYS., 2021,, 171-203.		0
348	Experimental investigations of a smallâ€scale solarâ€assisted absorption cooling system. Heat Transfer, 2021, 50, 2686-2708.	1.7	2

#	Article	IF	CITATIONS
349	Performance analysis of desiccant cooling systems in a hot and dry climate. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 1.	0.6	4
350	Optimum operational conditions of hybrid photovoltaic-thermal systems. Energy for Sustainable Development, 2021, 60, 26-32.	2.0	4
351	Design parameters and dynamic performance analysis of a high efficient solar-ground source cooling system using parabolic trough collector. International Journal of Sustainable Energy, 2021, 40, 253-282.	1.3	6
352	Thermal and energy performance of a solar-driven desiccant cooling system using an internally cooled desiccant wheel in various climate conditions. Applied Thermal Engineering, 2021, 185, 116077.	3.0	20
353	Simulation of solar-powered desiccant-assisted cooling in hot and humid climates., 2021,, 363-387.		1
354	Ventilative Cooling in Combination with Other Natural Cooling Solutions: Direct Evaporative Cooling—DEC. PoliTO Springer Series, 2021, , 167-190.	0.3	2
355	Influence of active water stream, irradiance, ambient temperature and wind speed on the efficiency of Fresnel lens based two stage PVT system. Thermal Science, 2022, 26, 1139-1150.	0.5	12
356	Solar cooling research and technology. , 2021, , 1-44.		2
357	Experimental evaluation of indoor thermal environment with modularity radiant heating in low energy buildings. International Journal of Refrigeration, 2021, 123, 159-168.	1.8	11
358	Design and Energy Analysis of a Solar Desiccant Evaporative Cooling System with Built-In Daily Energy Storage. Energies, 2021, 14, 2429.	1.6	7
359	Energy, economic, and environmental (3E) feasibility study of desiccant integrated multistage efficient indirect evaporative air conditioning system configurations in the subtropical climate. Heat and Mass Transfer, 2021, 57, 1855-1869.	1.2	1
360	Performance analysis of desiccant cooling system using polyacrylic acid sodium salt desiccant wheel. Science and Technology for the Built Environment, 0, , 1-13.	0.8	2
361	Solid desiccant-based dehumidification systems: A critical review on configurations, techniques, and current trends. International Journal of Refrigeration, 2022, 133, 337-352.	1.8	37
362	Investigation of the usage potential of the evacuated tube and the flat plate collectors to assist an absorption chiller. Sustainable Energy Technologies and Assessments, 2021, 47, 101437.	1.7	2
363	Inverse design of indoor radiant terminal using the particle swarm optimization method with topology concept. Building and Environment, 2021, 204, 108117.	3.0	8
364	Solar adsorption air conditioning system – Recent advances and its potential for cooling an office building in tropical climate. Case Studies in Thermal Engineering, 2021, 27, 101275.	2.8	7
365	Feasibility study on the solar absorption cooling system for a residential complex in the Australian subtropical region. Case Studies in Thermal Engineering, 2021, 27, 101202.	2.8	14
366	Experimental study on desiccant evaporative combined chilled air/chilled water air conditioning systems. Applied Thermal Engineering, 2021, 199, 117534.	3.0	15

#	Article	IF	CITATIONS
367	Thermal solar sorption cooling systems - A review of principle, technology, and applications. AEJ - Alexandria Engineering Journal, 2022, 61, 367-402.	3.4	30
368	Effect of Operational and Design Parameters on Desiccant-Assisted Hybrid Air-conditioning Systems Performance. Journal of Engineering Research, 2021, .	0.1	O
370	PCMs in Separate Heat Storage Modules. Green Energy and Technology, 2020, , 121-146.	0.4	1
371	Adsorptive Heat Transformation and Storage: Thermodynamic and Kinetic Aspects. SpringerBriefs in Applied Sciences and Technology, 2018, , 1-18.	0.2	1
372	Performance Analyses of Photovoltaic Thermal Integrated Concentrator Collector Combined With Single Effect Absorption Cooling Cycle: Constant Flow Rate Mode. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	16
373	Various Aspects of Solar Energy Utilization: Review. International Journal of Advanced Science and Technology, 2013, 58, 41-50.	0.3	5
374	AOTs and Solar Energy for Air, Water and Soil Treatment. Transactions of the Materials Research Society of Japan, 2014, 39, 117-120.	0.2	3
375	Optimum Thickness of Wall Insulations and Their Thermal Performance for Buildings in Malaysian Climate. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1207-1217.	0.5	11
376	Operational evaluation of the performance of a solar powered absorption system in Pretoria. Journal of Energy in Southern Africa, 2013, 24, 26-32.	0.5	2
377	The Potential for Solar Cooling in Iran. , 2008, , 818-822.		0
378	Solar Cooling Systems solar cooling system. , 2012, , 9509-9562.		0
379	A Review and New Design Options to Minimize the Capital and Operational Cost of Single Effect Solar Absorption Cooling System for Residential Use. Lecture Notes in Mechanical Engineering, 2012, , 3-18.	0.3	0
380	In-field monitoring and numerical parametric analysis of a small size adsorption solar cooling plant in Italy. Renewable Energy and Power Quality Journal, 0, , 997-1001.	0.2	0
381	Experimental Analysis on Solar Desiccant Air Conditioner. International Journal of Engineering Research, 2014, 3, 324-326.	0.1	0
382	Solar Energy: Building Operations Use. , 2014, , 1708-1714.		0
383	Performance of an autonomous solar powered absorption air conditioning system. Journal of Energy in Southern Africa, 2015, 26, 106-112.	0.5	0
384	Assessment of Conventional Air Conditioner System by Measurement in Tropical Region. Asian Journal of Scientific Research, 2016, 9, 248-257.	0.3	0
385	Effective Parameters on the Performance of Solar Desiccant Cooling Systems. Trends in Bioinformatics, 2016, 9, 44-51.	0.3	0

#	Article	IF	CITATIONS
386	Sorption Thermal Energy Storage. , 2017, , 1-53.		0
387	Analysis of Solar-Assisted Cooling Chamber. Journal of Clean Energy Technologies, 2017, 5, 120-125.	0.1	1
388	PENGARUH POROSITAS BUATAN PADA ADSORBER TERHADAP KUALITAS TRANSFER PANAS DAN MASSA. Jurnal Ilmiah Pendidikan Teknik Dan Kejuruan, 2017, 7, .	0.0	0
389	Enhancement of Hybrid Solar Air Conditioning System using a New Control Strategy. Al-Khawarizmi Engineering Journal, 2018, 14, 24-33.	0.3	1
390	Experimental Investigations of the Indoor Thermal Performance of Open Door System (ODOORS) House Prototype in Tropical Climate. , 0, , .		0
391	A Hybrid Ray-Tracing Optical Model for Compound Parabolic Concentrators. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.1	1
392	A Review of single-effect solar absorption chillers and its perspective on Lebanese case. Energy Reports, 2021, 7, 12-22.	2.5	9
393	A review on solar-powered cooling and air-conditioning systems for building applications. Energy Reports, 2022, 8, 2888-2907.	2.5	49
395	Solar Cooling Systems. , 2012, , 399-452.		0
396	Metal-organic frameworks (MOF) based heat transfer: A comprehensive review. Chemical Engineering Journal, 2022, 449, 137700.	6.6	39
397	Are subsidies for thermally-driven solar-assisted cooling systems consistent? A critical investigation for Southern Italy. Energy Reports, 2022, 8, 7751-7763.	2.5	3
398	Modelling single-effect of Lithium Bromide-Water (LiBr–H2O) driven by an evacuated solar tube collector in Ma'an city (Jordan) case study. Case Studies in Thermal Engineering, 2022, 37, 102239.	2.8	4
399	The application of solar integrated absorption cooling system to improve the air quality and reduce the energy consumption of the air conditioning systems in buildings – A full year model simulation. Energy and Buildings, 2022, 274, 112420.	3.1	9
400	Techno-Economic Analysis of dual ejectors solar assisted combined absorption cooling cycle. Case Studies in Thermal Engineering, 2022, 39, 102423.	2.8	6
401	Energy and Comfort Evaluation of Fresh Air-Based Hybrid Cooling System in Hot and Humid Climates. Energies, 2022, 15, 7537.	1.6	2
402	Investigation of a vertical closedâ€loop geothermal system for heating an educational building. Energy Science and Engineering, 2023, 11, 482-501.	1.9	1
403	Performance analysis of a novel dual-evaporation-temperature combined-effect absorption chiller for temperature and humidity independent control air-conditioning. Energy Conversion and Management, 2022, 273, 116417.	4.4	12
404	A review of solar thermal cooling technologies in selected Middle East and North African countries. Sustainable Energy Technologies and Assessments, 2022, 54, 102871.	1.7	3

#	Article	IF	CITATIONS
405	Comparative analysis of a new desiccant dehumidifier design with a traditional rotary desiccant wheel for air conditioning purpose. Applied Thermal Engineering, 2023, 222, 119945.	3.0	8
406	Wave analysis method for air humidity assisted sorption thermal battery: A new perspective. Energy Conversion and Management, 2023, 277, 116638.	4.4	6
407	Progressive development in hybrid liquid desiccant-vapour compression cooling system: A review. Sustainable Energy Technologies and Assessments, 2023, 55, 102960.	1.7	0
408	A qualitative assessment of integrated active cooling systems: A review with a focus on system flexibility and climate resilience. Renewable and Sustainable Energy Reviews, 2023, 175, 113179.	8.2	10
409	Exploring the growth of sustainable energy Technologies: A review. Sustainable Energy Technologies and Assessments, 2023, 57, 103157.	1.7	7
410	Thermal analysis of the hybrid HVAC unit using interpolant function. Energy Reports, 2023, 9, 3943-3955.	2.5	0
411	Parametric investigations on a novel bubble column liquid desiccant dehumidifier with internal cooling. Energy and Buildings, 2023, 285, 112913.	3.1	4
412	Performance investigation of solar assisted desiccant integrated Maisotsenko cycle cooler in subtropical climate conditions. Case Studies in Thermal Engineering, 2023, 44, 102864.	2.8	7
413	Modelling and performance assessment of a Tri–Generation cooling system using two adsorption chillers under Jordanian climate. Case Studies in Thermal Engineering, 2023, 44, 102848.	2.8	2
414	Monolithic Zirconiumâ€Based Metal–Organic Frameworks for Energyâ€Efficient Water Adsorption Applications. Advanced Materials, 2023, 35, .	11.1	7
415	Solar-operated vapor absorption cooling system. , 2023, , 63-107.		0