

Ruzhu Wang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8897936/ruzhu-wang-publications-by-citations.pdf>

Version: 2024-04-23

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.

832
papers

28,575
citations

78
h-index

120
g-index

874
ext. papers

33,328
ext. citations

7.2
avg, IF

7.89
L-index

#	Paper	IF	Citations
832	Combined cooling, heating and power: A review. <i>Progress in Energy and Combustion Science</i> , 2006 , 32, 459-495	33.6	574
831	A review of available technologies for seasonal thermal energy storage. <i>Solar Energy</i> , 2014 , 103, 610-638	6.8	334
830	Sorption thermal storage for solar energy. <i>Progress in Energy and Combustion Science</i> , 2013 , 39, 489-514	33.6	334
829	Adsorption refrigeration—An efficient way to make good use of waste heat and solar energy?. <i>Progress in Energy and Combustion Science</i> , 2006 , 32, 424-458	33.6	318
828	Desiccant cooling air conditioning: a review. <i>Renewable and Sustainable Energy Reviews</i> , 2006 , 10, 55-77	16.2	316
827	Concentrated solar energy applications using Fresnel lenses: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 2588-2606	16.2	310
826	A review of thermally activated cooling technologies for combined cooling, heating and power systems. <i>Progress in Energy and Combustion Science</i> , 2011 , 37, 172-203	33.6	306
825	A review on adsorption working pairs for refrigeration. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 518-534	16.2	299
824	Preparation and thermal characterization of expanded graphite/paraffin composite phase change material. <i>Carbon</i> , 2010 , 48, 2538-2548	10.4	259
823	Technical development of rotary desiccant dehumidification and air conditioning: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 130-147	16.2	239
822	Thermal stratification within the water tank. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1014-1026	16.2	237
821	Progress and Expectation of Atmospheric Water Harvesting. <i>Joule</i> , 2018 , 2, 1452-1475	27.8	211
820	A review of promising candidate reactions for chemical heat storage. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 13-31	16.2	199
819	Performance improvement of adsorption cooling by heat and mass recovery operation. <i>International Journal of Refrigeration</i> , 2001 , 24, 602-611	3.8	197
818	How to evaluate performance of net zero energy building—A literature research. <i>Energy</i> , 2014 , 71, 1-16	7.9	194
817	Energy and exergy analyses on a novel hybrid solar heating, cooling and power generation system for remote areas. <i>Applied Energy</i> , 2009 , 86, 1395-1404	10.7	183
816	An overview of phase change material slurries: MPCS and CHS. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 598-614	16.2	178

815	Energy optimization model for a CCHP system with available gas turbines. <i>Applied Thermal Engineering</i> , 2005 , 25, 377-391	5.8	174
814	Use of liquid desiccant cooling to improve the performance of vapor compression air conditioning. <i>Applied Thermal Engineering</i> , 2001 , 21, 1185-1202	5.8	174
813	Natural gas storage in hydrates with the presence of promoters. <i>Energy Conversion and Management</i> , 2003 , 44, 2733-2742	10.6	173
812	Recent progress on desiccant materials for solid desiccant cooling systems. <i>Energy</i> , 2014 , 74, 280-294	7.9	169
811	Progress of mathematical modeling on ejectors. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1760-1780	16.2	169
810	Ultrahigh-efficiency desalination via a thermally-localized multistage solar still. <i>Energy and Environmental Science</i> , 2020 , 13, 830-839	35.4	153
809	Study of a novel silica gel/water adsorption chiller. Part I. Design and performance prediction. <i>International Journal of Refrigeration</i> , 2005 , 28, 1073-1083	3.8	150
808	Energy efficiency and economic feasibility of CCHP driven by stirling engine. <i>Energy Conversion and Management</i> , 2004 , 45, 1433-1442	10.6	149
807	A simulation study of heat and mass transfer in a honeycombed rotary desiccant dehumidifier. <i>Applied Thermal Engineering</i> , 2003 , 23, 989-1003	5.8	149
806	Enhancement of heat transfer for thermal energy storage application using stearic acid nanocomposite with multi-walled carbon nanotubes. <i>Energy</i> , 2013 , 55, 752-761	7.9	147
805	Literature review on solar adsorption technologies for ice-making and air-conditioning purposes and recent developments in solar technology. <i>Renewable and Sustainable Energy Reviews</i> , 2001 , 5, 313-342	16.2	141
804	High-Performance Thermally Conductive Phase Change Composites by Large-Size Oriented Graphite Sheets for Scalable Thermal Energy Harvesting. <i>Advanced Materials</i> , 2019 , 31, e1905099	24	135
803	A review of the mathematical models for predicting rotary desiccant wheel. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 1485-1528	16.2	133
802	Use of compound desiccant to develop high performance desiccant cooling system. <i>International Journal of Refrigeration</i> , 2007 , 30, 345-353	3.8	130
801	Advances in wind energy resource exploitation in urban environment: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 613-626	16.2	129
800	A review for research and new design options of solar absorption cooling systems. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 4416-4423	16.2	129
799	Experimental comparison and analysis on silica gel and polymer coated fin-tube heat exchangers. <i>Energy</i> , 2010 , 35, 2893-2900	7.9	129
798	Experimental comparison of two honeycombed desiccant wheels fabricated with silica gel and composite desiccant material. <i>Energy Conversion and Management</i> , 2006 , 47, 2523-2534	10.6	129

797	Formation and dissociation of HFC134a gas hydrate in nano-copper suspension. <i>Energy Conversion and Management</i> , 2006 , 47, 201-210	10.6	127
796	A review on phase change cold storage in air-conditioning system: Materials and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 22, 108-120	16.2	121
795	Development of a novel two-stage liquid desiccant dehumidification system assisted by CaCl ₂ solution using exergy analysis method. <i>Applied Energy</i> , 2010 , 87, 1495-1504	10.7	121
794	Solar sorption cooling systems for residential applications: Options and guidelines. <i>International Journal of Refrigeration</i> , 2009 , 32, 638-660	3.8	120
793	Performance analysis of an integrated energy storage and energy upgrade thermochemical solid-gas sorption system for seasonal storage of solar thermal energy. <i>Energy</i> , 2013 , 50, 454-467	7.9	109
792	Experimental investigation on a one-rotor two-stage rotary desiccant cooling system. <i>Energy</i> , 2008 , 33, 1807-1815	7.9	108
791	Simulation and experimental validation of the variable-refrigerant-volume (VRV) air-conditioning system in EnergyPlus. <i>Energy and Buildings</i> , 2008 , 40, 1041-1047	7	106
790	An energy efficient hybrid system of solar powered water heater and adsorption ice maker. <i>Solar Energy</i> , 2000 , 68, 189-195	6.8	106
789	A mathematical model for predicting the performance of a compound desiccant wheel (A model of compound desiccant wheel). <i>Applied Thermal Engineering</i> , 2010 , 30, 1005-1015	5.8	102
788	Energy simulation in the variable refrigerant flow air-conditioning system under cooling conditions. <i>Energy and Buildings</i> , 2007 , 39, 212-220	7	102
787	Performance of a multi-functional direct-expansion solar assisted heat pump system. <i>Solar Energy</i> , 2006 , 80, 795-803	6.8	102
786	Solar integrated energy system for a green building. <i>Energy and Buildings</i> , 2007 , 39, 985-993	7	100
785	Perspectives for low-temperature waste heat recovery. <i>Energy</i> , 2019 , 176, 1037-1043	7.9	99
784	Solar heating and cooling: Present and future development. <i>Renewable Energy</i> , 2018 , 126, 1126-1140	8.1	99
783	New composite adsorbent for solar-driven fresh water production from the atmosphere. <i>Desalination</i> , 2007 , 212, 176-182	10.3	99
782	Adsorption refrigeration research in Shanghai Jiao Tong University. <i>Renewable and Sustainable Energy Reviews</i> , 2001 , 5, 1-37	16.2	99
781	Study of a novel silica gel-water adsorption chiller. Part II. Experimental study. <i>International Journal of Refrigeration</i> , 2005 , 28, 1084-1091	3.8	98
780	Experimental investigation of a micro-combined cooling, heating and power system driven by a gas engine. <i>International Journal of Refrigeration</i> , 2005 , 28, 977-987	3.8	98

779	Experimental investigation on copper foam/hydrated salt composite phase change material for thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 148-157	4.9	96
778	Experimental study on a two-stage rotary desiccant cooling system. <i>International Journal of Refrigeration</i> , 2009 , 32, 498-508	3.8	95
777	Performance study of silica gel coated fin-tube heat exchanger cooling system based on a developed mathematical model. <i>Energy Conversion and Management</i> , 2011 , 52, 2329-2338	10.6	95
776	Analysis on a hybrid desiccant air-conditioning system. <i>Applied Thermal Engineering</i> , 2006 , 26, 2393-2400	5.8	95
775	Case study of solar chimney power plants in Northwestern regions of China. <i>Renewable Energy</i> , 2003 , 28, 1295-1304	8.1	95
774	Experimental performance analysis on a direct-expansion solar-assisted heat pump water heater. <i>Applied Thermal Engineering</i> , 2007 , 27, 2858-2868	5.8	94
773	Numerical heat transfer analysis of the packed bed latent heat storage system based on an effective packed bed model. <i>Energy</i> , 2010 , 35, 2022-2032	7.9	93
772	Flow boiling of liquid nitrogen in micro-tubes: Part II □Heat transfer characteristics and critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 5017-5030	4.9	92
771	Compound adsorbent for adsorption ice maker on fishing boats. <i>International Journal of Refrigeration</i> , 2004 , 27, 401-408	3.8	92
770	Study on a direct-expansion solar-assisted heat pump water heating system. <i>International Journal of Energy Research</i> , 2003 , 27, 531-548	4.5	92
769	Forced flow and convective melting heat transfer of clathrate hydrate slurry in tubes. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3745-3757	4.9	90
768	Development and characterization of silica gel□Cl composite sorbents for thermal energy storage. <i>Chemical Engineering Science</i> , 2014 , 111, 73-84	4.4	89
767	Progress in the development of solid□gas sorption refrigeration thermodynamic cycle driven by low-grade thermal energy. <i>Progress in Energy and Combustion Science</i> , 2014 , 40, 1-58	33.6	87
766	Experimental investigation and analysis on a thermoelectric refrigerator driven by solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 377-391	6.4	87
765	Experimental study on a continuous adsorption water chiller with novel design. <i>International Journal of Refrigeration</i> , 2005 , 28, 218-230	3.8	87
764	Case study and theoretical analysis of a solar driven two-stage rotary desiccant cooling system assisted by vapor compression air-conditioning. <i>Solar Energy</i> , 2011 , 85, 2997-3009	6.8	86
763	Thermal energy storage coupled with PV panels for demand side management of industrial building cooling loads. <i>Applied Energy</i> , 2017 , 185, 1984-1993	10.7	85
762	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5202-5210	16.4	85

761	A review for the applications of solar chimneys in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3757-3767	16.2	85
760	Performance analysis on a hybrid air-conditioning system of a green building. <i>Energy and Buildings</i> , 2006 , 38, 447-453	7	85
759	A review for absorption and adsorption solar cooling systems in China. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1523-1531	16.2	84
758	Experimental investigation and analysis on a concentrating solar collector using linear Fresnel lens. <i>Energy Conversion and Management</i> , 2010 , 51, 48-55	10.6	81
757	Gas Hydrate Phase Equilibrium Data of Cyclohexane and Cyclopentane. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 313-315	2.8	81
756	Experimental investigation on a desiccant dehumidification unit using fin-tube heat exchanger with silica gel coating. <i>Applied Thermal Engineering</i> , 2014 , 63, 52-58	5.8	80
755	Absorption refrigeration cycles: Categorized based on the cycle construction. <i>International Journal of Refrigeration</i> , 2016 , 62, 114-136	3.8	79
754	Study on a compact silica gel/water adsorption chiller without vacuum valves: Design and experimental study. <i>Applied Energy</i> , 2010 , 87, 2673-2681	10.7	78
753	Design and performance of a solar-powered air-conditioning system in a green building. <i>Applied Energy</i> , 2008 , 85, 297-311	10.7	78
752	Optimal operation of a micro-combined cooling, heating and power system driven by a gas engine. <i>Energy Conversion and Management</i> , 2009 , 50, 530-538	10.6	77
751	A review for the applications and integrated approaches of ground-coupled heat pump systems. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3133-3140	16.2	77
750	Flow boiling of liquid nitrogen in micro-tubes: Part I – The onset of nucleate boiling, two-phase flow instability and two-phase flow pressure drop. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4999-5016	4.9	77
749	Study of thermal conductivity, permeability, and adsorption performance of consolidated composite activated carbon adsorbent for refrigeration. <i>Renewable Energy</i> , 2011 , 36, 2062-2066	8.1	74
748	Effective thermal conductivity of expanded graphite/CaCl ₂ composite adsorbent for chemical adsorption chillers. <i>Energy Conversion and Management</i> , 2006 , 47, 1902-1912	10.6	74
747	Composite adsorbent of CaCl ₂ and expanded graphite for adsorption ice maker on fishing boats. <i>International Journal of Refrigeration</i> , 2006 , 29, 199-210	3.8	74
746	High performance form-stable expanded graphite/stearic acid composite phase change material for modular thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 102, 733-744 ^{4.9}	4.9	73
745	Study on dew point evaporative cooling system with counter-flow configuration. <i>Energy Conversion and Management</i> , 2016 , 109, 153-165	10.6	72
744	The present and future of residential refrigeration, power generation and energy storage. <i>Applied Thermal Engineering</i> , 2013 , 53, 256-270	5.8	72

743	Sorption thermal energy storage: Concept, process, applications and perspectives. <i>Energy Storage Materials</i> , 2020 , 27, 352-369	19.4	71
742	Renewable energy in Kenya: Resource potential and status of exploitation. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 2960-2973	16.2	71
741	Experimental study on dynamic performance analysis of a flat-plate solar solid-adsorption refrigeration for ice maker. <i>Renewable Energy</i> , 2002 , 27, 211-221	8.1	71
740	Experimental performance of a silica gel-water adsorption chiller. <i>Applied Thermal Engineering</i> , 2005 , 25, 359-375	5.8	71
739	Hydrate equilibrium data of 1,1,1,2-tetrafluoroethane (HFC-134a), 1,1-dichloro-1-fluoroethane (HCFC-141b) and 1,1-difluoroethane (HFC-152a). <i>Fluid Phase Equilibria</i> , 2001 , 187-188, 61-70	2.5	71
738	Anisotropic thermal conductivity and permeability of compacted expanded natural graphite. <i>Applied Thermal Engineering</i> , 2010 , 30, 1805-1811	5.8	70
737	Study of the fundamentals of adsorption systems. <i>Applied Thermal Engineering</i> , 1997 , 17, 327-338	5.8	70
736	A consolidated calcium chloride-expanded graphite compound for use in sorption refrigeration systems. <i>Carbon</i> , 2007 , 45, 390-396	10.4	70
735	Experimental performance analysis and optimization of a direct expansion solar-assisted heat pump water heater. <i>Energy</i> , 2007 , 32, 1361-1374	7.9	70
734	Review on solar powered rotary desiccant wheel cooling system. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 476-497	16.2	69
733	Research and development of consolidated adsorbent for adsorption systems. <i>Renewable Energy</i> , 2005 , 30, 1425-1441	8.1	69
732	Highly thermally conductive and flexible phase change composites enabled by polymer/graphite nanoplatelet-based dual networks for efficient thermal management. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20011-20020	13	69
731	Heat transfer design in adsorption refrigeration systems for efficient use of low-grade thermal energy. <i>Energy</i> , 2011 , 36, 5425-5439	7.9	68
730	Study on a New Solid Adsorption Refrigeration Pair: Active Carbon Fiber/Methanol. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1997 , 119, 214-218	2.3	68
729	The performance of two adsorption ice making test units using activated carbon and a carbon composite as adsorbents. <i>Carbon</i> , 2006 , 44, 2671-2680	10.4	68
728	Parameter analysis to improve rotary desiccant dehumidification using a mathematical model. <i>International Journal of Thermal Sciences</i> , 2001 , 40, 400-408	4.1	68
727	Design and experimental study of a silica gel-water adsorption chiller with modular adsorbers. <i>International Journal of Refrigeration</i> , 2016 , 67, 336-344	3.8	67
726	Study of a novel solar adsorption cooling system and a solar absorption cooling system with new CPC collectors. <i>Renewable Energy</i> , 2013 , 50, 299-306	8.1	67

725	Performance comparison between a solar driven rotary desiccant cooling system and conventional vapor compression system (performance study of desiccant cooling). <i>Applied Thermal Engineering</i> , 2010 , 30, 724-731	5.8	67
724	Adsorption cold storage system with zeolite/water working pair used for locomotive air conditioning. <i>Energy Conversion and Management</i> , 2003 , 44, 1733-1743	10.6	67
723	Development and thermochemical characterizations of vermiculite/SrBr ₂ composite sorbents for low-temperature heat storage. <i>Energy</i> , 2016 , 115, 120-128	7.9	67
722	Performance study of SAPO-34 and FAPO-34 desiccants for desiccant coated heat exchanger systems. <i>Energy</i> , 2015 , 93, 88-94	7.9	66
721	Performance investigation of a solar heating system with underground seasonal energy storage for greenhouse application. <i>Energy</i> , 2014 , 67, 63-73	7.9	66
720	Numerical and experimental analysis of a point focus solar collector using high concentration imaging PMMA Fresnel lens. <i>Energy Conversion and Management</i> , 2011 , 52, 2417-2426	10.6	66
719	Optimal study of a solar air heating system with pebble bed energy storage. <i>Energy Conversion and Management</i> , 2011 , 52, 2392-2400	10.6	66
718	Experimental investigation and performance analysis on a solar adsorption cooling system with/without heat storage. <i>Applied Energy</i> , 2010 , 87, 824-835	10.7	66
717	Performance prediction of a solar/gas driving double effect LiBr/H ₂ O absorption system. <i>Renewable Energy</i> , 2004 , 29, 1677-1695	8.1	66
716	Performance study on composite desiccant material coated fin-tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 109-120	4.9	65
715	Study of the performance of activated carbon/methanol adsorption systems concerning heat and mass transfer. <i>Applied Thermal Engineering</i> , 2003 , 23, 1605-1617	5.8	65
714	Performance of energy recovery ventilator with various weathers and temperature set-points. <i>Energy and Buildings</i> , 2007 , 39, 1202-1210	7	64
713	Evaluation and analysis of novel micro-scale combined cooling, heating and power (MCCHP) system. <i>Energy Conversion and Management</i> , 2007 , 48, 1703-1709	10.6	64
712	Adsorption ice makers for fishing boats driven by the exhaust heat from diesel engine: choice of adsorption pair. <i>Energy Conversion and Management</i> , 2004 , 45, 2043-2057	10.6	64
711	Experimental investigation on a thermoelectric refrigerator driven by solar cells. <i>Renewable Energy</i> , 2003 , 28, 949-959	8.1	64
710	Study on heat and mass recovery in adsorption refrigeration cycles. <i>Applied Thermal Engineering</i> , 2001 , 21, 439-452	5.8	64
709	Experimental and theoretical analysis on a linear Fresnel reflector solar collector prototype with V-shaped cavity receiver. <i>Applied Thermal Engineering</i> , 2013 , 51, 963-972	5.8	63
708	Comparative study on two novel intermediate temperature CPC solar collectors with the U-shape evacuated tubular absorber. <i>Solar Energy</i> , 2013 , 93, 220-234	6.8	63

707	Simulation investigation on solar powered desiccant coated heat exchanger cooling system. <i>Applied Energy</i> , 2012 , 93, 532-540	10.7	63
706	System optimization and experimental research on air source heat pump water heater. <i>Applied Thermal Engineering</i> , 2007 , 27, 1029-1035	5.8	63
705	Experimental Studying of Additives Effects on Gas Storage in Hydrates. <i>Energy & Fuels</i> , 2003 , 17, 1180-1185	4.1	63
704	Super Atmospheric Water Harvesting Hydrogel with Alginate Chains Modified with Binary Salts 2020 , 2, 471-477		62
703	Water vapor sorption performance of ACF-CaCl ₂ and silica gel-CaCl ₂ composite adsorbents. <i>Applied Thermal Engineering</i> , 2016 , 100, 893-901	5.8	62
702	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. <i>Sustainability</i> , 2017 , 9, 712	3.6	61
701	Investigation on thermal conductive consolidated composite CaCl ₂ for adsorption refrigeration. <i>International Journal of Thermal Sciences</i> , 2014 , 81, 68-75	4.1	61
700	Study on hydro-forming technology of manufacturing bimetallic CRA-lined pipe. <i>International Journal of Machine Tools and Manufacture</i> , 2005 , 45, 373-378	9.4	61
699	Simulation and experiments on an ORC system with different scroll expanders based on energy and exergy analysis. <i>Applied Thermal Engineering</i> , 2015 , 75, 880-888	5.8	60
698	Experimental study on roll-bond collector/evaporator with optimized-channel used in direct expansion solar assisted heat pump water heating system. <i>Applied Thermal Engineering</i> , 2014 , 66, 571-579	5.8	60
697	Development of solar thermal technologies in China. <i>Energy</i> , 2010 , 35, 4407-4416	7.9	60
696	Performance study of composite silica gels with different pore sizes and different impregnating hygroscopic salts. <i>Chemical Engineering Science</i> , 2014 , 120, 1-9	4.4	59
695	Case study of a two-stage rotary desiccant cooling/heating system driven by evacuated glass tube solar air collectors. <i>Energy and Buildings</i> , 2012 , 47, 107-112	7	59
694	A novel thermal storage strategy for CCHP system based on energy demands and state of storage tank. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 85, 117-129	5.1	59
693	The effects of operation parameter on the performance of a solar-powered adsorption chiller. <i>Applied Energy</i> , 2010 , 87, 3018-3022	10.7	59
692	Comfortable, high-efficiency heat pump with desiccant-coated, water-sorbing heat exchangers. <i>Scientific Reports</i> , 2017 , 7, 40437	4.9	58
691	Experimental study on silica gel-LiCl composite desiccants for desiccant coated heat exchanger. <i>International Journal of Refrigeration</i> , 2015 , 51, 24-32	3.8	58
690	A Thermal Management Strategy for Electronic Devices Based on Moisture Sorption-Desorption Processes. <i>Joule</i> , 2020 , 4, 435-447	27.8	58

689	Study on consolidated composite sorbents impregnated with LiCl for thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 660-670	4.9	58
688	Experimental and simulative investigation of a micro-CCHP (micro combined cooling, heating and power) system with thermal management controller. <i>Energy</i> , 2014 , 68, 444-453	7.9	58
687	Performance analysis of an adsorption refrigerator using activated carbon in a compound adsorbent. <i>Carbon</i> , 2006 , 44, 747-752	10.4	58
686	Evaluation of a three-phase sorption cycle for thermal energy storage. <i>Energy</i> , 2014 , 67, 468-478	7.9	57
685	Heat transfer characteristics of phase change nanocomposite materials for thermal energy storage application. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 1-11	4.9	57
684	A target-oriented solid-gas thermochemical sorption heat transformer for integrated energy storage and energy upgrade. <i>AIChE Journal</i> , 2013 , 59, 1334-1347	3.6	57
683	Parametric analysis to improve the performance of a solar desalination unit with humidification and dehumidification. <i>Desalination</i> , 2002 , 142, 107-118	10.3	57
682	Enhancement of field emission of the ZnO film by the reduced work function and the increased conductivity via hydrogen plasma treatment. <i>Applied Physics Letters</i> , 2009 , 94, 262105	3.4	56
681	A review on transportation of heat energy over long distance: Exploratory development. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1532-1540	16.2	56
680	Performance researches and improvements on heat regenerative adsorption refrigerator and heat pump. <i>Energy Conversion and Management</i> , 2001 , 42, 233-249	10.6	56
679	Experimental investigation on the heat transfer performance and water condensation phenomenon of radiant cooling panels. <i>Building and Environment</i> , 2014 , 71, 15-23	6.5	55
678	Experimental investigation and analysis of composite silica-gel coated fin-tube heat exchangers. <i>International Journal of Refrigeration</i> , 2015 , 51, 169-179	3.8	54
677	Solar driven air conditioning and refrigeration systems corresponding to various heating source temperatures. <i>Applied Energy</i> , 2016 , 169, 846-856	10.7	54
676	Experimental investigations on desiccant wheels. <i>Applied Thermal Engineering</i> , 2012 , 42, 71-80	5.8	54
675	Experimental research and operation optimization of an air-source heat pump water heater. <i>Applied Energy</i> , 2011 , 88, 4128-4138	10.7	54
674	Exergy cost analysis of a micro-trigeneration system based on the structural theory of thermoeconomics. <i>Energy</i> , 2008 , 33, 1417-1426	7.9	54
673	Experimental study on solar assisted heat pump system for heat supply. <i>Energy Conversion and Management</i> , 2003 , 44, 1089-1098	10.6	54
672	Experimental study of a solidified activated carbon-methanol adsorption ice maker. <i>Applied Thermal Engineering</i> , 2003 , 23, 1453-1462	5.8	54

671	Numerical investigation of a two-stage air-cooled absorption refrigeration system for solar cooling: Cycle analysis and absorption cooling performances. <i>Renewable Energy</i> , 2011 , 36, 1401-1412	8.1	53
670	Performance Comparison of Direct Expansion Solar-assisted Heat Pump and Conventional Air Source Heat Pump for Domestic Hot Water. <i>Energy Procedia</i> , 2015 , 70, 394-401	2.3	52
669	A high efficient semi-open system for fresh water production from atmosphere. <i>Energy</i> , 2017 , 138, 542-551		52
668	2014 ,		52
667	Design and performance prediction of a new generation adsorption chiller using composite adsorbent. <i>Energy Conversion and Management</i> , 2011 , 52, 2345-2350	10.6	52
666	An efficient solar-powered adsorption chiller and its application in low-temperature grain storage. <i>Solar Energy</i> , 2007 , 81, 607-613	6.8	52
665	Development of SrBr ₂ composite sorbents for a sorption thermal energy storage system to store low-temperature heat. <i>Energy</i> , 2016 , 115, 129-139	7.9	52
664	Comparison of heating and natural ventilation in a solar house induced by two roof solar collectors. <i>Applied Thermal Engineering</i> , 2005 , 25, 741-757	5.8	51
663	Experimental and analytical study on an air-cooled single effect LiBr-H ₂ O absorption chiller driven by evacuated glass tube solar collector for cooling application in residential buildings. <i>Solar Energy</i> , 2017 , 151, 110-118	6.8	49
662	Experimental performance of evaporative cooling pad systems in greenhouses in humid subtropical climates. <i>Applied Energy</i> , 2015 , 138, 291-301	10.7	49
661	A novel variable effect LiBr-water absorption refrigeration cycle. <i>Energy</i> , 2013 , 60, 457-463	7.9	49
660	Band bending mechanism for field emission in wide-band gap semiconductors. <i>Applied Physics Letters</i> , 2002 , 81, 2782-2784	3.4	49
659	Experimental investigation on two solar-driven sorption based devices to extract fresh water from atmosphere. <i>Applied Thermal Engineering</i> , 2017 , 127, 1608-1616	5.8	48
658	Magnetic exchange coupling and anisotropy of 3d transition metal nanowires on graphyne. <i>Scientific Reports</i> , 2014 , 4, 4014	4.9	48
657	A resorption cycle for the cogeneration of electricity and refrigeration. <i>Applied Energy</i> , 2013 , 106, 56-64	10.7	48
656	Energy supply concepts for zero energy residential buildings in humid and dry climate. <i>Energy Conversion and Management</i> , 2011 , 52, 2455-2460	10.6	48
655	Effect of surfactants and liquid hydrocarbons on gas hydrate formation rate and storage capacity. <i>International Journal of Energy Research</i> , 2003 , 27, 747-756	4.5	48
654	Recent developments of refrigeration technology in fishing vessels. <i>Renewable Energy</i> , 2005 , 30, 589-608	10.1	48

653	Thermodynamic analysis of a hybrid membrane liquid desiccant dehumidification and dew point evaporative cooling system. <i>Energy Conversion and Management</i> , 2018 , 156, 440-458	10.6	48
652	Impacts of feed-in tariff policies on design and performance of CCHP system in different climate zones. <i>Applied Energy</i> , 2016 , 175, 168-179	10.7	48
651	Urban biomass and methods of estimating municipal biomass resources. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 80, 1017-1030	16.2	47
650	A novel solid-gas thermochemical multilevel sorption thermal battery for cascaded solar thermal energy storage. <i>Applied Energy</i> , 2016 , 161, 1-10	10.7	46
649	Investigation on a two-stage solar liquid-desiccant (LiBr) dehumidification system assisted by CaCl ₂ solution. <i>Applied Thermal Engineering</i> , 2009 , 29, 1209-1215	5.8	46
648	Year round experimental study on a constant temperature and humidity air-conditioning system driven by ground source heat pump. <i>Energy</i> , 2011 , 36, 1309-1318	7.9	46
647	Experimental Study on a Hybrid Desiccant Dehumidification and Air Conditioning System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2006 , 128, 77-82	2.3	46
646	Waste heat recovery of power plant with large scale serial absorption heat pumps. <i>Energy</i> , 2018 , 165, 1097-1105	7.9	46
645	Optimal sizing of a multi-source energy plant for power heat and cooling generation. <i>Applied Thermal Engineering</i> , 2014 , 71, 736-750	5.8	45
644	Evaluation of the cooling performance of a consolidated expanded graphite-calcium chloride reactive bed for chemisorption icemaker. <i>International Journal of Refrigeration</i> , 2007 , 30, 103-112	3.8	45
643	Efficient adsorption refrigerators integrated with heat pipes. <i>Applied Thermal Engineering</i> , 2008 , 28, 317-326	5.8	45
642	Universal scalable sorption-based atmosphere water harvesting. <i>Energy</i> , 2018 , 165, 387-395	7.9	45
641	Solid-gas thermochemical sorption thermal battery for solar cooling and heating energy storage and heat transformer. <i>Energy</i> , 2015 , 84, 745-758	7.9	44
640	Refining energy sources in winemaking industry by using solar energy as alternatives for fossil fuels: A review and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 88, 278-296	16.2	44
639	Experimental studies on an air-cooled two-stage NH ₃ -H ₂ O solar absorption air-conditioning prototype. <i>Energy</i> , 2012 , 45, 581-587	7.9	44
638	Development of a new synthesized adsorbent for refrigeration and air conditioning applications. <i>Applied Thermal Engineering</i> , 2006 , 26, 56-65	5.8	44
637	Modelling and experimental investigation of the cross-flow dew point evaporative cooler with and without dehumidification. <i>Applied Thermal Engineering</i> , 2017 , 121, 1-13	5.8	43
636	Experimental investigation on a small pumpless ORC (organic rankine cycle) system driven by the low temperature heat source. <i>Energy</i> , 2015 , 91, 324-333	7.9	43

635	Thermal conductivity, pore structure and adsorption performance of compact composite silica gel. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 68, 435-443	4.9	43
634	Permeability and thermal conductivity of compact chemical and physical adsorbents with expanded natural graphite as host matrix. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 4453-4459	4.9	43
633	A high performance desiccant dehumidification unit using solid desiccant coated heat exchanger with heat recovery. <i>Energy and Buildings</i> , 2016 , 116, 583-592	7	42
632	Performance study of a solar photovoltaic air conditioner in the hot summer and cold winter zone. <i>Solar Energy</i> , 2015 , 117, 167-179	6.8	42
631	Theoretical and experimental study on characteristics of a novel silica gel-water chiller under the conditions of variable heat source temperature. <i>International Journal of Refrigeration</i> , 2007 , 30, 515-526	3.8	42
630	Experience on integration of solar thermal technologies with green buildings. <i>Renewable Energy</i> , 2008 , 33, 1904-1910	8.1	42
629	A new combined adsorption-desiccant refrigeration and heating hybrid system powered by solar energy. <i>Applied Thermal Engineering</i> , 2002 , 22, 1245-1258	5.8	42
628	Human umbilical cord-derived mesenchymal stem cells do not undergo malignant transformation during long-term culturing in serum-free medium. <i>PLoS ONE</i> , 2014 , 9, e98565	3.7	42
627	Performance exploration of temperature swing adsorption technology for carbon dioxide capture. <i>Energy Conversion and Management</i> , 2018 , 165, 396-404	10.6	41
626	Thermal performance analysis of a packed bed cold storage unit using composite PCM capsules for high temperature solar cooling application. <i>Applied Thermal Engineering</i> , 2016 , 100, 247-255	5.8	41
625	Optimal ammonia water absorption refrigeration cycle with maximum internal heat recovery derived from pinch technology. <i>Energy</i> , 2014 , 68, 862-869	7.9	41
624	Simulation and parameter analysis of a two-stage desiccant cooling/heating system driven by solar air collectors. <i>Energy Conversion and Management</i> , 2013 , 67, 309-317	10.6	41
623	Experimental study on adsorbent of activated carbon with refrigerant of methanol and ethanol for solar ice maker. <i>Renewable Energy</i> , 2004 , 29, 2235-2244	8.1	41
622	Study of a solar powered solid adsorption-desiccant cooling system used for grain storage. <i>Renewable Energy</i> , 2002 , 25, 417-430	8.1	41
621	Experimental research of composite solid sorbents for fresh water production driven by solar energy. <i>Applied Thermal Engineering</i> , 2017 , 121, 941-950	5.8	40
620	Development of highly conductive KNO ₃ /NaNO ₃ composite for TES (thermal energy storage). <i>Energy</i> , 2014 , 70, 272-277	7.9	40
619	Adsorption Equilibrium of Water on a Composite Adsorbent Employing Lithium Chloride in Silica Gel. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2920-2923	2.8	40
618	Experiment on a continuous heat regenerative adsorption refrigerator using spiral plate heat exchanger as adsorbers. <i>Applied Thermal Engineering</i> , 1998 , 18, 13-23	5.8	40

617	Split heat pipe type compound adsorption ice making test unit for fishing boats. <i>International Journal of Refrigeration</i> , 2006 , 29, 456-468	3.8	40
616	Investigation of a 10 kWh sorption heat storage device for effective utilization of low-grade thermal energy. <i>Energy</i> , 2016 , 113, 739-747	7.9	40
615	Comparison of different kinds of heat recoveries applied in adsorption refrigeration system. <i>International Journal of Refrigeration</i> , 2015 , 55, 37-48	3.8	39
614	Thermal energy storage using absorption cycle and system: A comprehensive review. <i>Energy Conversion and Management</i> , 2020 , 206, 112482	10.6	39
613	An analysis of the performance of a novel solar silica gel/water adsorption air conditioning. <i>Applied Thermal Engineering</i> , 2011 , 31, 3636-3642	5.8	39
612	Study on a novel thermally driven air conditioning system with desiccant dehumidification and regenerative evaporative cooling. <i>Building and Environment</i> , 2010 , 45, 2473-2484	6.5	39
611	Single-phase pressure drop and heat transfer characteristics of turbulent liquid nitrogen flow in micro-tubes. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 1993-2001	4.9	39
610	Experimental investigation of a novel multifunction heat pipe solid sorption icemaker for fishing boats using CaCl ₂ /activated carbon compound/ammonia. <i>International Journal of Refrigeration</i> , 2007 , 30, 76-85	3.8	39
609	Enhancement of natural ventilation in a solar house with a solar chimney and a solid adsorption cooling cavity. <i>Solar Energy</i> , 2003 , 74, 65-75	6.8	39
608	Integrated energy storage and energy upgrade, combined cooling and heating supply, and waste heat recovery with solid/gas thermochemical sorption heat transformer. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 76, 237-246	4.9	38
607	Effective thermal conductivity and permeability of compact compound ammoniated salts in the adsorption/desorption process. <i>International Journal of Thermal Sciences</i> , 2013 , 71, 103-110	4.1	38
606	Experimental investigation on the ammonia adsorption and heat transfer characteristics of the packed multi-walled carbon nanotubes. <i>Applied Thermal Engineering</i> , 2015 , 77, 20-29	5.8	38
605	Performance investigation on solar thermal conversion of a conical cavity receiver employing a beam-down solar tower concentrator. <i>Solar Energy</i> , 2015 , 114, 134-151	6.8	38
604	A new approach to energy consumption prediction of domestic heat pump water heater based on grey system theory. <i>Energy and Buildings</i> , 2011 , 43, 1273-1279	7	38
603	Experimental study of a novel CaCl ₂ /expanded graphite-NH ₃ adsorption refrigerator. <i>International Journal of Refrigeration</i> , 2010 , 33, 61-69	3.8	38
602	Development of no valve solar ice maker. <i>Applied Thermal Engineering</i> , 2004 , 24, 865-872	5.8	38
601	Practical experiments on an adsorption air conditioner powered by exhausted heat from a diesel locomotive. <i>Applied Thermal Engineering</i> , 2004 , 24, 1051-1059	5.8	38
600	A study of the effects of collector and environment parameters on the performance of a solar powered solid adsorption refrigerator. <i>Renewable Energy</i> , 2002 , 27, 369-382	8.1	38

599	Experimental investigation on air heating and natural ventilation of a solar air collector. <i>Energy and Buildings</i> , 2005 , 37, 373-381	7	38
598	Form-stable phase change composites: Preparation, performance, and applications for thermal energy conversion, storage and management. <i>Energy Storage Materials</i> , 2021 , 42, 380-380	19.4	38
597	Investigation on a small-scale pumpless Organic Rankine Cycle (ORC) system driven by the low temperature heat source. <i>Applied Energy</i> , 2017 , 195, 478-486	10.7	37
596	Enhancing the thermal performance of triple vacuum glazing with low-emittance coatings. <i>Energy and Buildings</i> , 2015 , 97, 186-195	7	37
595	Experimental study on water-cooled thermoelectric cooler for CPU under severe environment. <i>International Journal of Refrigeration</i> , 2016 , 62, 30-38	3.8	37
594	Effects of hot rolling processing on microstructures and mechanical properties of Mg ₃ Al ₂ Zn alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1970-1974	5.3	37
593	Experiences on solar heating and cooling in China. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 1110-1128	16.2	37
592	Heat and mass transfer in a flat plate solar solid adsorption refrigeration ice maker. <i>Renewable Energy</i> , 2003 , 28, 613-622	8.1	37
591	Thermochemical characterizations of high-stable activated alumina/LiCl composites with multistage sorption process for thermal storage. <i>Energy</i> , 2018 , 156, 240-249	7.9	37
590	Interdroplet freezing wave propagation of condensation frosting on micropillar patterned superhydrophobic surfaces of varying pitches. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 1048-1056	4.9	36
589	Experimental study on performance of silica gel and potassium formate composite desiccant coated heat exchanger. <i>Energy</i> , 2017 , 141, 149-158	7.9	36
588	Study on operation strategy of a silica gel-water adsorption chiller in solar cooling application. <i>Solar Energy</i> , 2018 , 172, 24-31	6.8	36
587	Experimental investigation of a mini-type solar absorption cooling system under different cooling modes. <i>Energy and Buildings</i> , 2012 , 47, 131-138	7	36
586	Experimental investigation on a dual-mode thermochemical sorption energy storage system. <i>Energy</i> , 2017 , 140, 383-394	7.9	36
585	Experimental investigation on a one-rotor two-stage desiccant cooling/heating system driven by solar air collectors. <i>Applied Thermal Engineering</i> , 2011 , 31, 3677-3683	5.8	36
584	Design and performance prediction of a novel double heat pipes type adsorption chiller for fishing boats. <i>Renewable Energy</i> , 2008 , 33, 780-790	8.1	36
583	Influence of degree of mass recovery and heat regeneration on adsorption refrigeration cycles. <i>Energy Conversion and Management</i> , 2002 , 43, 733-741	10.6	36
582	Performance testing of a cross-flow membrane-based liquid desiccant dehumidification system. <i>Applied Thermal Engineering</i> , 2017 , 119, 119-131	5.8	35

581	Experimental evaluation of a variable effect LiBr-water absorption chiller designed for high-efficient solar cooling system. <i>International Journal of Refrigeration</i> , 2015 , 59, 135-143	3.8	35
580	On heat and moisture transfer characteristics of a desiccant dehumidification unit using fin tube heat exchanger with silica gel coating. <i>Applied Thermal Engineering</i> , 2015 , 91, 308-317	5.8	35
579	A zeolite 13X/magnesium sulfate-water sorption thermal energy storage device for domestic heating. <i>Energy Conversion and Management</i> , 2018 , 171, 98-109	10.6	35
578	High energy-density multi-form thermochemical energy storage based on multi-step sorption processes. <i>Energy</i> , 2019 , 185, 1131-1142	7.9	35
577	Comparison on Thermal Conductivity and Permeability of Granular and Consolidated Activated Carbon for Refrigeration. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 676-682	3.2	35
576	Dynamic hygroscopic effect of the composite material used in desiccant rotary wheel. <i>Solar Energy</i> , 2006 , 80, 1058-1061	6.8	35
575	Heating and cooling performance of a minitype ground source heat pump system. <i>Applied Thermal Engineering</i> , 2017 , 111, 1366-1370	5.8	34
574	High energy-density and power-density thermal storage prototype with hydrated salt for hot water and space heating. <i>Applied Energy</i> , 2019 , 248, 406-414	10.7	34
573	On the fundamental heat and mass transfer analysis of the counter-flow dew point evaporative cooler. <i>Applied Energy</i> , 2018 , 217, 126-142	10.7	34
572	Unsteady-state analysis of a counter-flow dew point evaporative cooling system. <i>Energy</i> , 2016 , 113, 172-185	7.35	34
571	Multivariate scaling and dimensional analysis of the counter-flow dew point evaporative cooler. <i>Energy Conversion and Management</i> , 2017 , 150, 172-187	10.6	34
570	Development of a novel rotary desiccant cooling cycle with isothermal dehumidification and regenerative evaporative cooling using thermodynamic analysis method. <i>Energy</i> , 2012 , 44, 778-791	7.9	34
569	Experimental investigation and theoretical analysis of the solar adsorption cooling system in a green building. <i>Applied Thermal Engineering</i> , 2009 , 29, 17-27	5.8	34
568	Theoretical comparison of the refrigerating performances of a CaCl ₂ impregnated composite adsorbent to those of the host silica gel. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 68-75	4.1	34
567	Energetic efficiency of a gas-engine-driven cooling and heating system. <i>Applied Thermal Engineering</i> , 2004 , 24, 941-947	5.8	34
566	Near-Zero-Energy Smart Battery Thermal Management Enabled by Sorption Energy Harvesting from Air. <i>ACS Central Science</i> , 2020 , 6, 1542-1554	16.8	34
565	Comparison of CPC driven solar absorption cooling systems with single, double and variable effect absorption chillers. <i>Solar Energy</i> , 2017 , 158, 511-519	6.8	33
564	Experimental study on a resorption system for power and refrigeration cogeneration. <i>Energy</i> , 2016 , 97, 182-190	7.9	33

563	Performance investigation on a novel two-stage solar driven rotary desiccant cooling system using composite desiccant materials. <i>Solar Energy</i> , 2010 , 84, 157-159	6.8	33
562	Experimental investigations on adsorption air-conditioner used in internal-combustion locomotive driver-cabin. <i>Applied Thermal Engineering</i> , 2002 , 22, 1153-1162	5.8	33
561	Equilibrium hydrate formation conditions for methylcyclohexane with methane and a ternary gas mixture. <i>Fluid Phase Equilibria</i> , 2002 , 198, 293-298	2.5	33
560	Infrared analysis of the irradiation effects in aromatic polyimide films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1063-1066	1.2	33
559	Adsorption-based atmospheric water harvesting. <i>Joule</i> , 2021 , 5, 1678-1703	27.8	33
558	Experimental study and performance predication of carbon based composite desiccants for desiccant coated heat exchangers. <i>International Journal of Refrigeration</i> , 2016 , 72, 124-131	3.8	33
557	Development of sorption thermal battery for low-grade waste heat recovery and combined cold and heat energy storage. <i>Energy</i> , 2016 , 107, 347-359	7.9	33
556	Simulation of solar cooling system based on variable effect LiBr-water absorption chiller. <i>Renewable Energy</i> , 2017 , 113, 907-914	8.1	32
555	Experimental investigation of a MnCl ₂ /CaCl ₂ -NH ₃ two-stage solid sorption freezing system for a refrigerated truck. <i>Energy</i> , 2016 , 103, 16-26	7.9	32
554	Experimental and theoretical study on a solar assisted CO ₂ heat pump for space heating. <i>Renewable Energy</i> , 2016 , 89, 295-304	8.1	32
553	Experimental study of the ammonia adsorption characteristics on the composite sorbent of CaCl ₂ and multi-walled carbon nanotubes. <i>International Journal of Refrigeration</i> , 2014 , 46, 165-172	3.8	32
552	Feasible study of a self-cooled solid desiccant cooling system based on desiccant coated heat exchanger. <i>Applied Thermal Engineering</i> , 2013 , 58, 281-290	5.8	32
551	An experimental investigation on the integration of two-stage dehumidification and regenerative evaporative cooling. <i>Applied Energy</i> , 2013 , 102, 1218-1228	10.7	32
550	A new approach to performance analysis of ejector refrigeration system using grey system theory. <i>Applied Thermal Engineering</i> , 2009 , 29, 1592-1597	5.8	32
549	Experimental investigation and theoretical analysis of solar heating and humidification system with desiccant rotor. <i>Energy and Buildings</i> , 2011 , 43, 1113-1122	7	32
548	Performance analysis of an innovative multimode, multisalt and multieffect chemisorption refrigeration system. <i>AIChE Journal</i> , 2007 , 53, 3222-3230	3.6	32
547	Experimental investigation of a solar adsorption chiller used for grain depot cooling. <i>Applied Thermal Engineering</i> , 2006 , 26, 1218-1225	5.8	32
546	Development and experimental study of an ammonia water absorption refrigeration prototype driven by diesel engine exhaust heat. <i>Energy</i> , 2017 , 130, 420-432	7.9	32

545	Study on the thermal effect of the ground heat exchanger of GSHP in the eastern China area. <i>Energy</i> , 2017 , 141, 56-65	7.9	31
544	Review on substrate of solid desiccant dehumidification system. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 3236-3249	16.2	31
543	Experimental investigation of an adsorption refrigeration prototype with the working pair of composite adsorbent-ammonia. <i>Applied Thermal Engineering</i> , 2014 , 72, 275-282	5.8	31
542	Experimental investigation on a novel temperature and humidity independent control air conditioning system [Part I: Cooling condition]. <i>Applied Thermal Engineering</i> , 2014 , 73, 784-793	5.8	31
541	Experimental study on an adsorption icemaker driven by parabolic trough solar collector. <i>Renewable Energy</i> , 2013 , 57, 223-233	8.1	31
540	Study on consolidated activated carbon: Choice of optimal adsorbent for refrigeration application. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 867-876	4.9	31
539	Experimental study on an adsorption chiller employing lithium chloride in silica gel and methanol. <i>International Journal of Refrigeration</i> , 2012 , 35, 1950-1957	3.8	31
538	Experimental study of a two-stage adsorption freezing machine driven by low temperature heat source. <i>International Journal of Refrigeration</i> , 2013 , 36, 1029-1036	3.8	31
537	Novel composite sorbent for resorption systems and for chemisorption air conditioners driven by low generation temperature. <i>Renewable Energy</i> , 2009 , 34, 2757-2764	8.1	31
536	A new target-oriented methodology of decreasing the regeneration temperature of solid-gas thermochemical sorption refrigeration system driven by low-grade thermal energy. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4719-4729	4.9	31
535	Study on a silica gel-water adsorption chiller integrated with a closed wet cooling tower. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 611-620	4.1	31
534	Experimental investigation of capillary-assisted evaporation on the outside surface of horizontal tubes. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4047-4054	4.9	31
533	Energy upgrading by solid-gas reaction heat transformer: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 1302-1324	16.2	31
532	Thermochemical Characterizations of Novel Vermiculite-LiCl Composite Sorbents for Low-Temperature Heat Storage. <i>Energies</i> , 2016 , 9, 854	3.1	31
531	Experimental investigation on an innovative resorption system for energy storage and upgrade. <i>Energy Conversion and Management</i> , 2017 , 138, 651-658	10.6	30
530	Theoretical and experimental investigation of a closed sorption thermal storage prototype using LiCl/water. <i>Energy</i> , 2015 , 93, 1523-1534	7.9	30
529	Solar powered atmospheric water harvesting with enhanced LiCl/MgSO ₄ /ACF composite. <i>Applied Thermal Engineering</i> , 2020 , 176, 115396	5.8	30
528	Experimental investigation on a MnCl ₂ /CaCl ₂ /NH ₃ thermal energy storage system. <i>Renewable Energy</i> , 2016 , 91, 130-136	8.1	30

527	Performance simulation of a joint solid desiccant heat pump and variable refrigerant flow air conditioning system in EnergyPlus. <i>Energy and Buildings</i> , 2013 , 65, 220-230	7	30
526	A high-efficient centrifugal heat pump with industrial waste heat recovery for district heating. <i>Applied Thermal Engineering</i> , 2017 , 125, 359-365	5.8	30
525	Bubble growth, departure and the following flow pattern evolution during flow boiling in a mini-tube. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4819-4831	4.9	30
524	Visualization of flow boiling of liquid nitrogen in a vertical mini-tube. <i>International Journal of Multiphase Flow</i> , 2008 , 34, 333-351	3.6	30
523	Locomotive driver cabin adsorption air-conditioner. <i>Renewable Energy</i> , 2003 , 28, 1659-1670	8.1	30
522	Pore structure of new composite adsorbent $\text{SiO}_2 \cdot x\text{H}_2\text{O} \cdot y\text{CaCl}_2$ with high uptake of water from air. <i>Science in China Series D: Earth Sciences</i> , 2003 , 46, 551		30
521	Performance characterizations and thermodynamic analysis of magnesium sulfate-impregnated zeolite 13X and activated alumina composite sorbents for thermal energy storage. <i>Energy</i> , 2019 , 167, 889-901	7.9	30
520	Performance evaluation of different heating terminals used in air source heat pump system. <i>International Journal of Refrigeration</i> , 2019 , 98, 274-282	3.8	30
519	Experimental investigation on thermochemical heat storage using manganese chloride/ammonia. <i>Energy</i> , 2018 , 143, 562-574	7.9	30
518	Highly conductive phase change composites enabled by vertically-aligned reticulated graphite nanoplatelets for high-temperature solar photo/electro-thermal energy conversion, harvesting and storage. <i>Nano Energy</i> , 2021 , 89, 106338	17.1	30
517	Life cycle cost and sensitivity analysis of a hydrogen system using low-price electricity in China. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1899-1911	6.7	29
516	Investigation on a mini-CPC hybrid solar thermoelectric generator unit. <i>Renewable Energy</i> , 2016 , 92, 83-94	8.1	29
515	Experimental performance investigation of small solar air-conditioning systems with different kinds of collectors and chillers. <i>Solar Energy</i> , 2014 , 110, 7-14	6.8	29
514	Performance investigation on a novel single-pass evacuated tube with a symmetrical compound parabolic concentrator. <i>Solar Energy</i> , 2013 , 98, 275-289	6.8	29
513	An investigation of a household size trigeneration running with hydrogen. <i>Applied Energy</i> , 2011 , 88, 2176-2182	6.2	29
512	Design and performance simulation of a new solar continuous solid adsorption refrigeration and heating hybrid system. <i>Renewable Energy</i> , 2002 , 27, 401-415	8.1	29
511	Performance modeling and testing on a heat-regenerative adsorptive reversible heat pump. <i>Applied Thermal Engineering</i> , 2002 , 22, 309-320	5.8	29
510	Experimental study on locomotive driver cabin adsorption air conditioning prototype machine. <i>Energy Conversion and Management</i> , 2005 , 46, 1655-1665	10.6	29

509	Thermodynamic analysis of single-stage and multi-stage adsorption refrigeration cycles with activated carbon-ammonia working pair. <i>Energy Conversion and Management</i> , 2016 , 117, 31-42	10.6	29
508	Absorption seasonal thermal storage cycle with high energy storage density through multi-stage output. <i>Energy</i> , 2019 , 167, 1086-1096	7.9	29
507	Ultrahigh solar-driven atmospheric water production enabled by scalable rapid-cycling water harvester with vertically aligned nanocomposite sorbent. <i>Energy and Environmental Science</i> ,	35.4	29
506	New concept of desiccant-enhanced heat pump. <i>Energy Conversion and Management</i> , 2018 , 156, 568-574	10.6	29
505	Composite $\text{LiCl}/\text{MWCNTs}$ as advanced water sorbent for thermal energy storage: Sorption dynamics. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 176, 273-279	6.4	28
504	Performance study of desiccant coated heat exchanger air conditioning system in winter. <i>Energy Conversion and Management</i> , 2016 , 123, 559-568	10.6	28
503	Chemisorption cooling and electric power cogeneration system driven by low grade heat. <i>Energy</i> , 2014 , 72, 590-598	7.9	28
502	Investigation on cascading cogeneration system of ORC (Organic Rankine Cycle) and $\text{CaCl}_2/\text{BaCl}_2$ two-stage adsorption freezer. <i>Energy</i> , 2014 , 71, 377-387	7.9	28
501	Investigation on an innovative resorption system for seasonal thermal energy storage. <i>Energy Conversion and Management</i> , 2017 , 149, 129-139	10.6	28
500	Absorption heat pump for waste heat reuse: current states and future development. <i>Frontiers in Energy</i> , 2017 , 11, 414-436	2.6	28
499	Resorption system for cold storage and long-distance refrigeration. <i>Applied Energy</i> , 2012 , 93, 479-487	10.7	28
498	Experimental analysis of an adsorption air conditioning with micro-porous silica gel-water. <i>Applied Thermal Engineering</i> , 2013 , 50, 1015-1020	5.8	28
497	A combined double-way chemisorption refrigeration cycle based on adsorption and resorption processes. <i>International Journal of Refrigeration</i> , 2009 , 32, 47-57	3.8	28
496	A comparison of the performances of adsorption and resorption refrigeration systems powered by the low grade heat. <i>Renewable Energy</i> , 2009 , 34, 2373-2379	8.1	28
495	Experimental investigation on a solar assisted heat pump in-store drying system. <i>Applied Thermal Engineering</i> , 2011 , 31, 1718-1724	5.8	28
494	Perspectives for natural working fluids in China. <i>International Journal of Refrigeration</i> , 2007 , 30, 568-581	3.8	28
493	Design, simulation and performance of a waste heat driven adsorption ice maker for fishing boat. <i>Energy</i> , 2006 , 31, 244-259	7.9	28
492	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. <i>Applied Thermal Engineering</i> , 2017 , 121, 410-418	5.8	27

491	Comparison of performance characteristics of desiccant coated air-water heat exchanger with conventional air-water heat exchanger [Experimental and analytical investigation. <i>Energy</i> , 2017 , 137, 399-411	7.9	27
490	Increasing the share of renewables through adsorption solar cooling: A validated case study. <i>Renewable Energy</i> , 2017 , 110, 126-140	8.1	27
489	Full control of heat transfer in single-particle structural materials. <i>Applied Physics Letters</i> , 2017 , 111, 121908	3.4	27
488	Study on MnCl ₂ /CaCl ₂ ·H ₂ O two-stage solid sorption freezing cycle for refrigerated trucks at low engine load in summer. <i>Energy Conversion and Management</i> , 2016 , 109, 1-9	10.6	27
487	Performance optimization and analysis of solar combi-system with carbon dioxide heat pump. <i>Solar Energy</i> , 2013 , 98, 212-225	6.8	27
486	Performance improvement by mass-heat recovery of an innovative adsorption air-conditioner driven by 50°C hot water. <i>Applied Thermal Engineering</i> , 2013 , 55, 113-120	5.8	27
485	Experimental investigation on a novel solid-gas thermochemical sorption heat transformer for energy upgrade with a large temperature lift. <i>Energy Conversion and Management</i> , 2017 , 148, 330-338	10.6	27
484	Experimental investigation and performance analysis of a fin tube phase change cold storage unit for high temperature cooling application. <i>Energy and Buildings</i> , 2015 , 89, 9-17	7	27
483	Solar Powered Cascading Cogeneration Cycle with ORC and Adsorption Technology for Electricity and Refrigeration. <i>Heat Transfer Engineering</i> , 2014 , 35, 1028-1034	1.7	27
482	Experimental investigation adsorption chillers using micro-porous silica gel/water and compound adsorbent-methanol. <i>Energy Conversion and Management</i> , 2013 , 65, 430-437	10.6	27
481	Design and performance of the solar-powered floor heating system in a green building. <i>Renewable Energy</i> , 2009 , 34, 1700-1708	8.1	27
480	Experimental study of mass recovery adsorption cycles for ice making at low generation temperature. <i>Applied Thermal Engineering</i> , 2006 , 26, 303-311	5.8	27
479	Multi-criteria optimization for a biomass gasification-integrated combined cooling, heating, and power system based on life-cycle assessment. <i>Energy Conversion and Management</i> , 2018 , 178, 383-399	10.6	27
478	Heat and mass transfer comparisons of desiccant coated microchannel and fin-and-tube heat exchangers. <i>Applied Thermal Engineering</i> , 2019 , 150, 1159-1167	5.8	26
477	Development and Characterization of Mesoporous Silicate/LiCl Composite Desiccants for Solid Desiccant Cooling Systems. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 2966-2973	3.9	26
476	Non-equilibrium sorption performances for composite sorbents of chlorides-ammonia working pairs for refrigeration. <i>International Journal of Refrigeration</i> , 2016 , 65, 60-68	3.8	26
475	Experimental analysis of an adsorption refrigerator with mass and heat-pipe heat recovery process. <i>Energy Conversion and Management</i> , 2012 , 53, 291-297	10.6	26
474	Exergy analysis and comparison of multi-functional heat pump and conventional heat pump systems. <i>Energy Conversion and Management</i> , 2013 , 73, 51-56	10.6	26

473	Experimental study on operating features of heat and mass recovery processes in adsorption refrigeration. <i>Energy</i> , 2017 , 135, 361-369	7.9	26
472	Flow and heat transfer characteristics of supercritical nitrogen in a vertical mini-tube. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 287-295	4.1	26
471	Analysis of indoor environmental conditions and heat pump energy supply systems in indoor swimming pools. <i>Energy and Buildings</i> , 2011 , 43, 1071-1080	7	26
470	Experimental investigation of adsorption chiller for Micro-scale BCHP system application. <i>Energy and Buildings</i> , 2007 , 39, 120-127	7	26
469	Research on a compact adsorption room air conditioner. <i>Energy Conversion and Management</i> , 2006 , 47, 2167-2177	10.6	26
468	Investigation on non-equilibrium performance of composite adsorbent for resorption refrigeration. <i>Energy Conversion and Management</i> , 2016 , 119, 67-74	10.6	26
467	Experimental investigation on performance of a novel composite desiccant coated heat exchanger in summer and winter seasons. <i>Energy</i> , 2019 , 166, 506-518	7.9	26
466	Experimental investigation on a novel heat pump system based on desiccant coated heat exchangers. <i>Energy</i> , 2018 , 142, 96-107	7.9	26
465	Experimental study of an adsorption chiller for extra low temperature waste heat utilization. <i>Applied Thermal Engineering</i> , 2019 , 163, 114341	5.8	25
464	Comparison of absorption refrigeration cycles for efficient air-cooled solar cooling. <i>Solar Energy</i> , 2018 , 172, 14-23	6.8	25
463	Experimental and comparison study on heat and moisture transfer characteristics of desiccant coated heat exchanger with variable structure sizes. <i>Applied Thermal Engineering</i> , 2018 , 137, 32-46	5.8	25
462	Thermodynamic performance assessment of CCHP system driven by different composition gas. <i>Applied Energy</i> , 2014 , 136, 599-610	10.7	25
461	Graphical analysis on internal heat recovery of a single stage ammonia-water absorption refrigeration system. <i>Energy</i> , 2015 , 80, 687-694	7.9	25
460	Building integrated energy storage opportunities in China. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 6191-6211	16.2	25
459	Development and comparison of two-bed silica gel-water adsorption chillers driven by low-grade heat source. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 1017-1025	4.1	25
458	Performance study of a consolidated manganese chloride-expanded graphite compound for sorption deep-freezing processes. <i>Applied Energy</i> , 2009 , 86, 1201-1209	10.7	25
457	Lithium chloride-Expanded graphite composite sorbent for solar powered ice maker. <i>Solar Energy</i> , 2010 , 84, 1587-1594	6.8	25
456	Adsorption Equilibrium of Water on Silica Gel. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2462-2465	2.8	25

455	Experiments on fast nucleation and growth of HCFC141b gas hydrate in static water columns. <i>International Journal of Refrigeration</i> , 2004 , 27, 932-939	3.8	25
454	Parametric study on the silica gel/calcium chloride composite desiccant rotary wheel employing fractal BET adsorption isotherm. <i>International Journal of Energy Research</i> , 2005 , 29, 37-51	4.5	25
453	Extremely high efficient heat pump with desiccant coated evaporator and condenser. <i>Energy</i> , 2019 , 170, 569-579	7.9	25
452	Vapor compression heat pumps with pure Low-GWP refrigerants. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 138, 110571	16.2	25
451	Performance analysis on a novel sorption air conditioner for electric vehicles. <i>Energy Conversion and Management</i> , 2018 , 156, 515-524	10.6	25
450	On the exergy analysis of the counter-flow dew point evaporative cooler. <i>Energy</i> , 2018 , 165, 958-971	7.9	25
449	Experimental study on working pairs for two-stage chemisorption freezing cycle. <i>Renewable Energy</i> , 2015 , 74, 287-297	8.1	24
448	Air humidity assisted sorption thermal battery governed by reaction wave model. <i>Energy Storage Materials</i> , 2020 , 27, 9-16	19.4	24
447	Performance simulation and exergy analysis of a hybrid source heat pump system with low GWP refrigerants. <i>Renewable Energy</i> , 2018 , 116, 775-785	8.1	24
446	Extraordinary air water harvesting performance with three phase sorption. <i>Materials Today Energy</i> , 2019 , 13, 362-373	7	24
445	Comparison of biological characteristics of mesenchymal stem cells derived from maternal-origin placenta and Wharton's jelly. <i>Stem Cell Research and Therapy</i> , 2015 , 6, 228	8.3	24
444	Theoretical and experimental analysis on efficiency factors and heat removal factors of Fresnel lens solar collector using different cavity receivers. <i>Solar Energy</i> , 2012 , 86, 2458-2471	6.8	24
443	Capillary-assisted flow and evaporation inside circumferential rectangular micro groove. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 952-961	4.9	24
442	Permeability and Thermal Conductivity of Compact Adsorbent of Salts for Sorption Refrigeration. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	24
441	Pressure-induced Raman-active radial breathing mode transition in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	24
440	Performance of a Diesel Locomotive Waste-Heat-Powered Adsorption Air Conditioning System. <i>Adsorption</i> , 2004 , 10, 57-68	2.6	24
439	Efficient CO ₂ capture from ambient air with amine-functionalized Mg/Al mixed metal oxides. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16421-16428	13	24
438	Comparison of the Effects of Different Cryoprotectants on Stem Cells from Umbilical Cord Blood. <i>Stem Cells International</i> , 2016 , 2016, 1396783	5	24

437	A Full-Solid-State Humidity Pump for Localized Humidity Control. <i>Joule</i> , 2019 , 3, 1427-1436	27.8	23
436	Experimental investigation on a MnCl ₂ CaCl ₂ NH ₃ resorption system for heat and refrigeration cogeneration. <i>Applied Energy</i> , 2016 , 181, 29-37	10.7	23
435	Water adsorption on the coated aluminum sheets by composite materials (LiCl + LiBr)/silica gel. <i>Energy</i> , 2018 , 160, 64-71	7.9	23
434	Analysis on innovative modular sorption and resorption thermal cell for cold and heat cogeneration. <i>Applied Energy</i> , 2017 , 204, 767-779	10.7	23
433	Monitoring the biology stability of human umbilical cord-derived mesenchymal stem cells during long-term culture in serum-free medium. <i>Cell and Tissue Banking</i> , 2014 , 15, 513-21	2.2	23
432	Experimental investigation and optimization of a ground source heat pump system under different indoor set temperatures. <i>Applied Thermal Engineering</i> , 2012 , 48, 105-116	5.8	23
431	Use of regenerative evaporative cooling to improve the performance of a novel one-rotor two-stage solar desiccant dehumidification unit. <i>Applied Thermal Engineering</i> , 2012 , 42, 11-17	5.8	23
430	Comparison study on performance of a hybrid solar-assisted CO ₂ heat pump. <i>Applied Thermal Engineering</i> , 2011 , 31, 3696-3705	5.8	23
429	Simulation and Analysis of a Single-Effect Thermal Vapor-Compression Desalination System at Variable Operation Conditions. <i>Chemical Engineering and Technology</i> , 2007 , 30, 1633-1641	2	23
428	High temperature hot water heat pump with non-azeotropic refrigerant mixture HCFC-22/HCFC-141b. <i>Energy Conversion and Management</i> , 2002 , 43, 2033-2040	10.6	23
427	Dynamic analysis of heat recovery process for a continuous heat recovery adsorption heat pump. <i>Energy Conversion and Management</i> , 2002 , 43, 2201-2211	10.6	23
426	Investigation of a novel combined cycle of solar powered adsorption injection refrigeration system. <i>Renewable Energy</i> , 2002 , 26, 611-622	8.1	23
425	Research on a combined adsorption heating and cooling system. <i>Applied Thermal Engineering</i> , 2002 , 22, 603-617	5.8	23
424	Experiments of a solar flat plate hybrid system with heating and cooling. <i>Applied Thermal Engineering</i> , 2002 , 22, 1445-1454	5.8	23
423	Structural enhancement mechanism of field emission from multilayer semiconductor films. <i>Physical Review B</i> , 2005 , 72,	3.3	23
422	Air-cooled adsorption-based device for harvesting water from island air. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110802	16.2	23
421	Desiccant-coated water-sorbing heat exchanger: Weakly-coupled heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 22-31	4.9	22
420	Perspectives for short-term thermal energy storage using salt hydrates for building heating. <i>Energy</i> , 2019 , 189, 116139	7.9	22

4 ¹⁹	Experimental investigation of an adsorption air-conditioner using silica gel-water working pair. <i>Solar Energy</i> , 2019 , 185, 64-71	6.8	22
4 ¹⁸	Performance prediction on a resorption cogeneration cycle for power and refrigeration with energy storage. <i>Renewable Energy</i> , 2015 , 83, 1250-1259	8.1	22
4 ¹⁷	Experimental study on a double-stage absorption solar thermal storage system with enhanced energy storage density. <i>Applied Energy</i> , 2020 , 262, 114476	10.7	22
4 ¹⁶	Experimental verification of the variable effect absorption refrigeration cycle. <i>Energy</i> , 2014 , 77, 703-709	7.9	22
4 ¹⁵	Solution to the sorption hysteresis by novel compact composite multi-salt sorbents. <i>Applied Thermal Engineering</i> , 2017 , 111, 580-585	5.8	22
4 ¹⁴	Experimental investigation on an open sorption thermal storage system for space heating. <i>Energy</i> , 2017 , 141, 2421-2433	7.9	22
4 ¹³	Performance of two-stage rotary desiccant cooling system with different regeneration temperatures. <i>Energy</i> , 2015 , 80, 556-566	7.9	22
4 ¹²	Experimental study and comparison of thermochemical resorption refrigeration cycle and adsorption refrigeration cycle. <i>Chemical Engineering Science</i> , 2010 , 65, 4222-4230	4.4	22
4 ¹¹	Experiments on heat-regenerative adsorption refrigerator and heat pump. <i>International Journal of Energy Research</i> , 1998 , 22, 935-941	4.5	22
4 ¹⁰	Experimental comparison of the sorption and refrigerating performances of a CaCl ₂ impregnated composite adsorbent and those of the host silica gel. <i>International Journal of Refrigeration</i> , 2007 , 30, 68-75	3.8	22
4 ⁰⁹	Study of the transient thermal wave heat transfer in a channel immersed in a bath of superfluid helium. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 1384-1394	4.9	22
4 ⁰⁸	Comparison of the adsorption performance of compound adsorbent in a refrigeration cycle with and without mass recovery. <i>Chemical Engineering Science</i> , 2006 , 61, 3761-3770	4.4	22
4 ⁰⁷	Water vapor compression and its various applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 98, 92-107	16.2	22
4 ⁰⁶	Performance study of a grid-connected photovoltaic powered central air conditioner in the South China climate. <i>Renewable Energy</i> , 2018 , 126, 1113-1125	8.1	21
4 ⁰⁵	Design and analysis of a biogas production system utilizing residual energy for a hybrid CSP and biogas power plant. <i>Applied Thermal Engineering</i> , 2016 , 109, 423-431	5.8	21
4 ⁰⁴	The counter-flow dew point evaporative cooler: Analyzing its transient and steady-state behavior. <i>Applied Thermal Engineering</i> , 2018 , 143, 34-47	5.8	21
4 ⁰³	Thermal performance analysis of a line-focus Fresnel lens solar collector using different cavity receivers. <i>Solar Energy</i> , 2013 , 91, 242-255	6.8	21
4 ⁰²	Effect of irreversible processes on the thermodynamic performance of open-cycle desiccant cooling cycles. <i>Energy Conversion and Management</i> , 2013 , 67, 44-56	10.6	21

401	Case study of green energy system design for a multi-function building in campus. <i>Sustainable Cities and Society</i> , 2011 , 1, 152-163	10.1	21
400	A conceptual design and performance analysis of a triple-effect solid-gas thermochemical sorption refrigeration system with internal heat recovery. <i>Chemical Engineering Science</i> , 2009 , 64, 3376-3384	4.4	21
399	Numerical simulation of a closed wet cooling tower with novel design. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 2367-2374	4.9	21
398	Performance study of a high efficient multifunction heat pipe type adsorption ice making system with novel mass and heat recovery processes. <i>International Journal of Thermal Sciences</i> , 2007 , 46, 1267-1274	4.1	21
397	Year round test of a solar adsorption ice maker in Kunming, China. <i>Energy Conversion and Management</i> , 2005 , 46, 2032-2041	10.6	21
396	Ultrahigh-Energy-Density Sorption Thermal Battery Enabled by Graphene Aerogel-Based Composite Sorbents for Thermal Energy Harvesting from Air. <i>ACS Energy Letters</i> , 2021 , 6, 1795-1802	20.1	21
395	A Solar/gas Fired Absorption System for Cooling and Heating in a Commercial Building. <i>Energy Procedia</i> , 2015 , 70, 518-528	2.3	20
394	Working pairs for resorption refrigerator. <i>Applied Thermal Engineering</i> , 2011 , 31, 3015-3021	5.8	20
393	3D visualization of two-phase flow in the micro-tube by a simple but effective method. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 085005	2	20
392	Research on the control laws of the electronic expansion valve for an air source heat pump water heater. <i>Building and Environment</i> , 2011 , 46, 1954-1961	6.5	20
391	The influence of additives and metal rods on the nucleation and growth of gas hydrates. <i>Journal of Colloid and Interface Science</i> , 2005 , 283, 223-30	9.3	20
390	Adsorption refrigeration-green cooling driven by low grade thermal energy. <i>Science Bulletin</i> , 2005 , 50, 193-204		20
389	Experimental research on characteristics of corrosion-resisting nickel alloy tube used in triple-effect LiBr/H ₂ O absorption chiller. <i>Applied Thermal Engineering</i> , 2001 , 21, 1161-1173	5.8	20
388	Dynamic simulation and experiments of a heat regenerative adsorption heat pump. <i>Energy Conversion and Management</i> , 2000 , 41, 1007-1018	10.6	20
387	Latent heat thermal storage using salt hydrates for distributed building heating: A multi-level scale-up research. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 121, 109712	16.2	19
386	Simulation and economic analysis of a solar-powered adsorption refrigerator using an evacuated tube for thermal insulation. <i>Renewable Energy</i> , 2003 , 28, 249-269	8.1	19
385	Experimental investigation of a new-style double-tube heat exchanger for heating crude oil using solar hot water. <i>Applied Thermal Engineering</i> , 2005 , 25, 1753-1763	5.8	19
384	Adsorption mechanism and improvements of the adsorption equation for adsorption refrigeration pairs. <i>International Journal of Energy Research</i> , 1999 , 23, 887-898	4.5	19

383	Towards a thermodynamically favorable dew point evaporative cooler via optimization. <i>Energy Conversion and Management</i> , 2020 , 203, 112224	10.6	19
382	Investigation on performance of multi-salt composite sorbents for multilevel sorption thermal energy storage. <i>Applied Energy</i> , 2017 , 190, 1029-1038	10.7	18
381	A sorption thermal storage system with large concentration glide. <i>Energy</i> , 2017 , 141, 380-388	7.9	18
380	On the in-depth scaling and dimensional analysis of a cross-flow membrane liquid desiccant dehumidifier. <i>Applied Energy</i> , 2019 , 250, 786-800	10.7	18
379	Real-time minimization of power consumption for air-source transcritical CO ₂ heat pump water heater system. <i>International Journal of Refrigeration</i> , 2018 , 85, 395-408	3.8	18
378	Experimental and modeling investigation of an ICE (internal combustion engine) based micro-cogeneration device considering overheat protection controls. <i>Energy</i> , 2016 , 101, 447-461	7.9	18
377	Experimental study on the effects of the operation conditions on the performance of a chemisorption air conditioner powered by low grade heat. <i>Applied Energy</i> , 2013 , 103, 571-580	10.7	18
376	A resorption refrigerator driven by low grade thermal energy. <i>Energy Conversion and Management</i> , 2011 , 52, 2339-2344	10.6	18
375	Studies on heat pipe type adsorption ice maker for fishing boats. <i>International Journal of Refrigeration</i> , 2008 , 31, 989-997	3.8	18
374	Adsorption performances and refrigeration application of adsorption working pair of CaCl ₂ -NH ₃ . <i>Science in China Series D: Earth Sciences</i> , 2004 , 47, 173		18
373	A mathematical model to predict the performance of desiccant coated evaporators and condensers. <i>International Journal of Refrigeration</i> , 2020 , 109, 188-207	3.8	18
372	Thermophysical heat storage for cooling, heating, and power generation: A review. <i>Applied Thermal Engineering</i> , 2020 , 166, 114728	5.8	18
371	Analysis on maximum internal heat recovery of a mass-coupled two stage ammonia water absorption refrigeration system. <i>Energy</i> , 2017 , 133, 822-831	7.9	17
370	Investigation on advanced heat pump systems with improved energy efficiency. <i>Energy Conversion and Management</i> , 2019 , 192, 161-170	10.6	17
369	Double-section absorption heat pump for the deep recovery of low-grade waste heat. <i>Energy Conversion and Management</i> , 2020 , 220, 113072	10.6	17
368	Performance study of sodium alginate-nonwoven fabric composite membranes for dehumidification. <i>Applied Thermal Engineering</i> , 2018 , 128, 214-224	5.8	17
367	Experimental testing on contaminant and moisture removal performance of silica gel desiccant wheel. <i>Energy and Buildings</i> , 2018 , 176, 71-77	7	17
366	Modifying water sorption properties with polymer additives for atmospheric water harvesting applications. <i>Applied Thermal Engineering</i> , 2019 , 161, 114109	5.8	17

365	Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle [Taking multi-stage cycle as an example. <i>International Journal of Refrigeration</i> , 2017 , 74, 254-268	3.8	17
364	Transient characteristics and performance analysis of a vapor compression air conditioning system with condensing heat recovery. <i>Energy and Buildings</i> , 2010 , 42, 2251-2257	7	17
363	Experimental Results and Analysis for Adsorption Ice-Making System with Consolidated Adsorbent. <i>Adsorption</i> , 2003 , 9, 349-358	2.6	17
362	A new type adsorber for adsorption ice maker on fishing boats. <i>Energy Conversion and Management</i> , 2005 , 46, 2301-2316	10.6	17
361	Energy-efficient boundary and design guidelines for atmospheric water harvesters with nano-porous sorbents. <i>Nano Energy</i> , 2021 , 85, 105977	17.1	17
360	Experimental investigation on solar powered desiccant coated heat exchanger humidification air conditioning system in winter. <i>Energy</i> , 2017 , 137, 468-478	7.9	16
359	Experimental investigation and simulation analysis of the thermal performance of a balcony wall integrated solar water heating unit. <i>Renewable Energy</i> , 2015 , 75, 115-122	8.1	16
358	A homogeneous-heterogeneous model for mixed convection in gravity-driven film flow of nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 95, 19-24	5.8	16
357	Study of the new composite adsorbent of salt LiCl/silica gel-methanol used in an innovative adsorption cooling machine driven by low temperature heat source. <i>Renewable Energy</i> , 2014 , 63, 445-451	8.1	16
356	Experimental investigation on a novel temperature and humidity independent control air conditioning system [Part II: Heating condition. <i>Applied Thermal Engineering</i> , 2014 , 73, 775-783	5.8	16
355	Design and performance analysis of a resorption cogeneration system. <i>International Journal of Low-Carbon Technologies</i> , 2013 , 8, i85-i91	2.8	16
354	Experimental investigation on heat transportation over long distance by ammonia-water absorption cycle. <i>Energy Conversion and Management</i> , 2009 , 50, 2331-2339	10.6	16
353	Study on the heat transfer and sorption characteristics of a consolidated composite sorbent for solar-powered thermochemical cooling systems. <i>Solar Energy</i> , 2009 , 83, 1742-1755	6.8	16
352	Composite Reactive Block for Heat Transformer System and Improvement of System Performance. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 1275-1280	0.8	16
351	Research on the chemical adsorption precursor state of CaCl ₂ -NH ₃ for adsorption refrigeration. <i>Science in China Series D: Earth Sciences</i> , 2005 , 48, 70		16
350	Study of film boiling in He II by pressure and temperature oscillation measurements. <i>Cryogenics</i> , 1999 , 39, 609-615	1.8	16
349	Experimental investigation on the performance of a very high temperature heat pump with water refrigerant. <i>Energy</i> , 2020 , 190, 116427	7.9	16
348	Modeling and simulation on a water vapor high temperature heat pump system. <i>Energy</i> , 2019 , 168, 106371	7.2	16

347	Sustainable agriculture for water-stressed regions by air-water-energy management. <i>Energy</i> , 2019 , 181, 1121-1128	7.9	15
346	Perspectives on industrialized transportable solar powered zero energy buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 108, 112-124	16.2	15
345	Investigation on energy consumption of desiccant coated heat exchanger based heat pump: Limitation of adsorption heat of desiccant. <i>Energy Conversion and Management</i> , 2019 , 188, 473-479	10.6	15
344	Experimental investigation and performance analysis of a mini-type solar absorption cooling system. <i>Applied Thermal Engineering</i> , 2013 , 59, 267-277	5.8	15
343	An improved cycle for large temperature lifts application in water-ammonia absorption system. <i>Energy</i> , 2017 , 118, 1361-1369	7.9	15
342	ENHANCEMENT OF HEAT AND MASS TRANSFER IN SOLID GAS SORPTION SYSTEMS 2012 , 20, 1130001		15
341	Experimental study on an innovative multifunction heat pipe type heat recovery two-stage sorption refrigeration system. <i>Energy Conversion and Management</i> , 2008 , 49, 2505-2512	10.6	15
340	Studies on cycle characteristics and application of split heat pipe adsorption ice maker. <i>Energy Conversion and Management</i> , 2007 , 48, 1106-1112	10.6	15
339	Experimental study on the dynamic characteristics of adsorption heat pumps driven by intermittent heat source at heating mode. <i>Applied Thermal Engineering</i> , 2005 , 25, 927-940	5.8	15
338	High-yield solar-driven atmospheric water harvesting with ultra-high salt content composites encapsulated in porous membrane. <i>Cell Reports Physical Science</i> , 2021 , 100664	6.1	15
337	Solar PV-Battery-Electric Grid-Based Energy System for Residential Applications: System Configuration and Viability. <i>Research</i> , 2019 , 2019, 3838603	7.8	15
336	Dual-Functional Aligned and Interconnected Graphite Nanoplatelet Networks for Accelerating Solar Thermal Energy Harvesting and Storage within Phase Change Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19200-19210	9.5	15
335	Distributed solar desalination by membrane distillation: current status and future perspectives. <i>Water Research</i> , 2021 , 198, 117154	12.5	15
334	A Moisture-Penetrating Humidity Pump Directly Powered by One-Sun Illumination. <i>IScience</i> , 2019 , 15, 502-513	6.1	14
333	The performance comparison of high temperature heat pump among R718 and other refrigerants. <i>Renewable Energy</i> , 2020 , 154, 715-722	8.1	14
332	Optimization and performance experiments of a MnCl ₂ /CaCl ₂ ·H ₂ O two-stage solid sorption freezing system for a refrigerated truck. <i>International Journal of Refrigeration</i> , 2016 , 71, 94-107	3.8	14
331	Experimental investigation and performance analysis of a ground-coupled heat pump system. <i>Geothermics</i> , 2013 , 48, 112-120	4.3	14
330	Experimental investigation on properties of composite sorbents for three-phase sorption-water working pairs. <i>International Journal of Refrigeration</i> , 2017 , 83, 51-59	3.8	14

329	Study on boundary conditions of adsorption heat pump systems using different working pairs for heating application. <i>Energy Conversion and Management</i> , 2017 , 154, 322-335	10.6	14
328	Heat integration of ammonia-water absorption refrigeration system through heat-exchanger network analysis. <i>Energy</i> , 2017 , 141, 1585-1599	7.9	14
327	Adsorption Characteristic of Methanol in Activated Carbon Impregnated with Lithium Chloride. <i>Chemical Engineering and Technology</i> , 2010 , 33, 1679-1686	2	14
326	Performance of solid-gas reaction heat transformer system with gas valve control. <i>Chemical Engineering Science</i> , 2010 , 65, 2910-2920	4.4	14
325	Transient Analysis of a Chemisorption Air Conditioning System Operating under Different Kinds of Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 1102-1110	3.9	14
324	Investigation of solid-gas reaction heat transformer system with the consideration of multistep reactions. <i>AIChE Journal</i> , 2008 , 54, 2464-2478	3.6	14
323	Experimental investigation on a thermochemical sorption refrigeration prototype using EG/SrCl ₂ -NH ₃ working pair. <i>International Journal of Refrigeration</i> , 2018 , 88, 8-15	3.8	14
322	Seawater heat pumps in China, a spatial analysis. <i>Energy Conversion and Management</i> , 2020 , 203, 112240	10.6	14
321	Annual energy performance of R744 and R410A heat pumping systems. <i>Applied Thermal Engineering</i> , 2017 , 117, 568-576	5.8	13
320	Investigation on an innovative cascading cycle for power and refrigeration cogeneration. <i>Energy Conversion and Management</i> , 2017 , 145, 20-29	10.6	13
319	Experimental and theoretical analysis on thermal performance of solar thermal curtain wall in building envelope. <i>Energy and Buildings</i> , 2015 , 87, 324-334	7	13
318	Analysis of composite sorbents for ammonia storage to eliminate NO _x emission at low temperatures. <i>Applied Thermal Engineering</i> , 2018 , 128, 1382-1390	5.8	13
317	Green roof simulation with a seasonally variable leaf area index. <i>Energy and Buildings</i> , 2018 , 174, 156-167	7	13
316	Simulation and evaluation of a biomass gasification-based combined cooling, heating, and power system integrated with an organic Rankine cycle. <i>Energy</i> , 2018 , 158, 238-255	7.9	13
315	Structure and surface effect of field emission from gallium nitride nanowires. <i>Applied Surface Science</i> , 2013 , 285, 115-120	6.7	13
314	Resorption system with simultaneous heat and cold production. <i>International Journal of Refrigeration</i> , 2011 , 34, 1262-1267	3.8	13
313	Choice of Low Temperature Salt for a Resorption Refrigerator. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 4897-4903	3.9	13
312	Thermodynamic study of a combined double-way solid-gas thermochemical sorption refrigeration cycle. <i>International Journal of Refrigeration</i> , 2009 , 32, 1570-1578	3.8	13

311	Study on the adsorption isosteres of the composite adsorbent CaCl ₂ and expanded graphite. <i>Energy Conversion and Management</i> , 2011 , 52, 1501-1506	10.6	13
310	Design and performance of a constant temperature and humidity air-conditioning system driven by ground source heat pumps in winter. <i>Energy Conversion and Management</i> , 2010 , 51, 2162-2168	10.6	13
309	Spin transport in an asymmetrical magnetic superlattice. <i>Physical Review B</i> , 2006 , 74,	3.3	13
308	Study on intermittent refrigeration phenomenon for solar solid adsorption refrigeration. <i>Applied Thermal Engineering</i> , 2005 , 25, 1614-1622	5.8	13
307	Practical three-heat-reservoir model on heat-regenerative adsorption air-conditioning system. <i>Applied Thermal Engineering</i> , 2001 , 21, 1643-1656	5.8	13
306	Peak and recovery heat flux densities in bath of subcooled superfluid helium. <i>Cryogenics</i> , 1994 , 34, 983-990	10.0	13
305	Dehydration kinetics and thermodynamics of magnesium chloride hexahydrate for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 219, 110819	6.4	13
304	Effect of LPG addition on a CCHP system based on different biomass-derived gases in cooling and power mode. <i>Applied Thermal Engineering</i> , 2017 , 115, 315-325	5.8	12
303	Water sorption properties, diffusion and kinetics of zeolite NaX modified by ion-exchange and salt impregnation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 990-999	4.9	12
302	Experimental Investigation on a Solar-powered Absorption Radiant Cooling System. <i>Energy Procedia</i> , 2015 , 70, 552-559	2.3	12
301	Investigation on humidification effect of desiccant coated heat exchanger for improving indoor humidity environment in winter. <i>Energy and Buildings</i> , 2018 , 165, 1-14	7	12
300	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. <i>Applied Thermal Engineering</i> , 2018 , 134, 29-38	5.8	12
299	Moisture uptake dynamics on desiccant-coated, water-sorbing heat exchanger. <i>International Journal of Thermal Sciences</i> , 2018 , 126, 13-22	4.1	12
298	Experimental identification and thermodynamic analysis of ammonia sorption equilibrium characteristics on halide salts. <i>Energy</i> , 2018 , 161, 955-962	7.9	12
297	A review on the solid sorption mechanism and kinetic models of metal halide-ammonia working pairs. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 783-792	16.2	12
296	Experiment on the thermal conductivity and permeability of physical and chemical compound adsorbents for sorption process. <i>Heat and Mass Transfer</i> , 2013 , 49, 1117-1124	2.2	12
295	Performance study on hybrid solar-assisted CO ₂ heat pump system based on the energy balance of net zero energy apartment. <i>Energy and Buildings</i> , 2012 , 54, 337-349	7	12
294	Experimental study on the performance of double-effect and double-way thermochemical sorption refrigeration cycle. <i>Applied Thermal Engineering</i> , 2011 , 31, 3658-3663	5.8	12

293	Exergy Analysis of Liquid Desiccant Dehumidification System. <i>International Journal of Green Energy</i> , 2010 , 7, 241-262	3	12
292	Development of an experimental prototype of an integrated thermal management controller for internal-combustion-engine-based cogeneration systems. <i>Applied Energy</i> , 2007 , 84, 1356-1373	10.7	12
291	Studies on split heat pipe type adsorption ice-making test unit for fishing boats: Choice of heat pipe medium and experiments under unsteady heating sources. <i>Energy Conversion and Management</i> , 2006 , 47, 2081-2091	10.6	12
290	Method to design optimal scheme for cold storage air conditioning system. <i>Energy Conversion and Management</i> , 2002 , 43, 2357-2367	10.6	12
289	A new method for the measurement of solar collector time constant. <i>Renewable Energy</i> , 2005 , 30, 855-865		12
288	Development of a PV performance model for power output simulation at minutely resolution. <i>Renewable Energy</i> , 2017 , 111, 732-739	8.1	11
287	Advanced thermochemical resorption heat transformer for high-efficiency energy storage and heat transformation. <i>Energy</i> , 2019 , 175, 1222-1233	7.9	11
286	Mechanism of hysteresis for composite multi-halide and its superior performance for low grade energy recovery. <i>Scientific Reports</i> , 2019 , 9, 1563	4.9	11
285	Theoretical Analysis and Case Study on Solar Driven Two-stage Rotary Desiccant Cooling System Combined with Geothermal Heat Pump. <i>Energy Procedia</i> , 2015 , 70, 418-426	2.3	11
284	Experimental performance study of sorption refrigerators driven by waste gases from fishing vessels diesel engine. <i>Applied Energy</i> , 2016 , 174, 224-231	10.7	11
283	A novel adsorption heat pump cycle: Cascaded mass recovery cycle. <i>International Journal of Refrigeration</i> , 2018 , 95, 21-27	3.8	11
282	Exergy analysis of R1234ze(Z) as high temperature heat pump working fluid with multi-stage compression. <i>Frontiers in Energy</i> , 2017 , 11, 493-502	2.6	11
281	Ammonia-water absorption cycle: a prospective way to transport low-grade heat energy over long distance. <i>International Journal of Low-Carbon Technologies</i> , 2011 , 6, 125-133	2.8	11
280	Studies on the light permeance characteristic of a Fresnel lens group applied in high concentration solar energy. <i>Journal of Optics</i> , 2007 , 9, 988-997		11
279	Multi-functional three-phase sorption solar thermal energy storage cycles for cooling, heating, and heat transformer. <i>Applied Thermal Engineering</i> , 2021 , 189, 116765	5.8	11
278	Performance investigation of a freezing system with novel multi-salt sorbent for refrigerated truck. <i>International Journal of Refrigeration</i> , 2019 , 98, 129-138	3.8	11
277	Investigation on novel desiccant wheel using wood pulp fiber paper with high coating ratio as matrix. <i>Energy</i> , 2019 , 176, 493-504	7.9	10
276	Demand Side Management of a Building Summer Cooling Load by Means of a Thermal Energy Storage. <i>Energy Procedia</i> , 2015 , 75, 3277-3283	2.3	10

275	Heat transfer to supercritical water in a vertical tube with concentrated incident solar heat flux on one side. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 944-952	4.9	10
274	Investigation on thermal properties of a novel fuel blend and its diesel engine performance. <i>Energy Conversion and Management</i> , 2018 , 171, 1540-1548	10.6	10
273	A universal method for performance evaluation of solar photovoltaic air-conditioner. <i>Solar Energy</i> , 2018 , 172, 58-68	6.8	10
272	An adaptive PID control method to improve the power tracking performance of solar photovoltaic air-conditioning systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109250	16.2	10
271	Study on gradient thermal driven adsorption cycle with freezing and cooling output for food storage. <i>Applied Thermal Engineering</i> , 2014 , 70, 231-239	5.8	10
270	Experimental investigation on performance of desiccant coated heat exchanger and sensible heat exchanger operating in series. <i>International Journal of Refrigeration</i> , 2017 , 83, 88-98	3.8	10
269	Thermodynamic analysis and performance simulation of different kinds of mass recovery processes applied in adsorption refrigeration system. <i>HVAC and R Research</i> , 2014 , 20, 311-319		10
268	A two-stage deep freezing chemisorption cycle driven by low-temperature heat source. <i>Frontiers in Energy</i> , 2011 , 5, 263	2.6	10
267	Research on refrigerant flow characteristics and performance of a multi-functional heat pump system. <i>Energy Conversion and Management</i> , 2011 , 52, 2323-2328	10.6	10
266	Field emission enhancement by the quantum structure in an ultrathin multilayer planar cold cathode. <i>Applied Physics Letters</i> , 2008 , 92, 142102	3.4	10
265	Influence of mass recovery on the performance of a heat pipe type ammonia sorption refrigeration system using CaCl ₂ /activated carbon as compound adsorbent. <i>Applied Thermal Engineering</i> , 2008 , 28, 1638-1646	5.8	10
264	Prediction of refrigerant gas hydrates formation conditions. <i>Journal of Thermal Science</i> , 2001 , 10, 64-68	1.9	10
263	Application analysis of adsorption refrigeration system for solar and data center waste heat utilization. <i>Energy Conversion and Management</i> , 2021 , 228, 113564	10.6	10
262	Design of steam-assisted temperature vacuum-swing adsorption processes for efficient CO ₂ capture from ambient air. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 137, 110651	16.2	10
261	Experimental investigation on two-stage thermoelectric cooling system adopted in isoelectric focusing. <i>International Journal of Refrigeration</i> , 2015 , 53, 1-12	3.8	9
260	Analysis on integrated low grade condensation heat powered desiccant coated vapor compression system. <i>Applied Thermal Engineering</i> , 2018 , 138, 307-318	5.8	9
259	Visualization study on capillary-spreading behavior of liquid droplet in vertically aligned carbon nanotube array. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 1055-1064	4.9	9
258	Investigation of annual energy performance of a VWV air source heat pump system. <i>International Journal of Refrigeration</i> , 2018 , 85, 383-394	3.8	9

257	Feasibility and economic analysis of solution transportation absorption system for long-distance thermal transportation under low ambient temperature. <i>Energy Conversion and Management</i> , 2019 , 196, 793-806	10.6	9
256	Enhanced sorption heat transportation cycles with large concentration glide. <i>Energy Conversion and Management</i> , 2019 , 201, 112145	10.6	9
255	Performance improvement and comparison of mass recovery in CaCl ₂ /activated carbon adsorption refrigerator and silica gel/LiCl adsorption chiller driven by low grade waste heat. <i>International Journal of Refrigeration</i> , 2013 , 36, 1504-1511	3.8	9
254	Influence of adsorption and desorption capacity on operating process for adsorption heat pump. <i>Applied Thermal Engineering</i> , 2002 , 22, 471-476	5.8	9
253	Photoswitchable phase change materials for unconventional thermal energy storage and upgrade. <i>Matter</i> , 2021 , 4, 3385-3399	12.7	9
252	Bioinspired topological design of super hygroscopic complex for cost-effective atmospheric water harvesting. <i>Nano Energy</i> , 2021 , 90, 106642	17.1	9
251	Transparent and Colored Solar Photovoltaics for Building Integration. <i>Solar Rrl</i> , 2021 , 5, 2000614	7.1	9
250	Dual-Encapsulated Highly Conductive and Liquid-Free Phase Change Composites Enabled by Polyurethane/Graphite Nanoplatelets Hybrid Networks for Efficient Energy Storage and Thermal Management.. <i>Small</i> , 2021 , e2105647	11	9
249	The feasibility of solid sorption heat pipe for heat transfer. <i>Energy Conversion and Management</i> , 2017 , 138, 148-155	10.6	8
248	A unified single stage ammonia-water absorption system configuration with producing best thermal efficiencies for freezing, air-conditioning and space heating applications. <i>Energy</i> , 2019 , 174, 1039-1048	7.9	8
247	Dehumidification assessment for desiccant coated heat exchanger systems in different buildings and climates: Fast choice of desiccants. <i>Energy and Buildings</i> , 2020 , 221, 110083	7	8
246	Composite [LiCl/MWCNT/PVA] for adsorption thermal battery: Dynamics of methanol sorption. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 123, 109748	16.2	8
245	Graphic general solutions for desiccant coated heat exchangers based on dimensional analysis. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 154, 119654	4.9	8
244	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. <i>Applied Energy</i> , 2018 , 215, 457-467	10.7	8
243	Experimental and simulation analysis of low temperature heat sources driven adsorption air conditioning, refrigeration, integrating ammonia, and organic expanding power generation. <i>International Journal of Energy Research</i> , 2018 , 42, 4157-4169	4.5	8
242	Performance analysis of a multi-mode thermochemical sorption refrigeration system for solar-powered cooling. <i>International Journal of Refrigeration</i> , 2012 , 35, 532-542	3.8	8
241	Analysis of resorption working pairs for air conditioners of electric vehicles. <i>Applied Energy</i> , 2017 , 207, 594-603	10.7	8
240	Investigation on novel modular sorption thermal cell with improved energy charging and discharging performance. <i>Energy Conversion and Management</i> , 2017 , 148, 110-119	10.6	8

239	Investigation of dew point evaporative cooling with vacuum membrane dehumidification. <i>Energy Procedia</i> , 2017 , 142, 3851-3856	2.3	8
238	Experimental study on a combined double-way chemisorption refrigeration system. <i>International Journal of Refrigeration</i> , 2011 , 34, 914-921	3.8	8
237	Experimental investigation of an innovative dual-mode chemisorption refrigeration system based on multifunction heat pipes. <i>International Journal of Refrigeration</i> , 2008 , 31, 1104-1112	3.8	8
236	Operational aspects of adsorption air-conditioner used in diesel locomotive. <i>International Journal of Energy Research</i> , 2006 , 30, 1377-1390	4.5	8
235	Numerical simulation of heat transfer in regenerator of solid adsorption refrigeration system. <i>Renewable Energy</i> , 2002 , 26, 599-610	8.1	8
234	Experimental results on operating parameters influence for an adsorption refrigerator. <i>International Journal of Thermal Sciences</i> , 2002 , 41, 137-145	4.1	8
233	Thermally-pressurized sorption heat storage cycle with low charging temperature. <i>Energy</i> , 2019 , 189, 116304	7.9	8
232	Analysis on innovative resorption cycle for power and refrigeration cogeneration. <i>Applied Energy</i> , 2018 , 218, 10-21	10.7	7
231	Novel multi-step sorption-reaction energy storage cycles for air conditioning and temperature upgrading. <i>Energy</i> , 2017 , 118, 464-472	7.9	7
230	Viscosity of liquid and gaseous helium-3 from 3mK to 500K. <i>Cryogenics</i> , 2012 , 52, 538-543	1.8	7
229	A REVIEW OF REACTANT SALTS FOR RESORPTION REFRIGERATION SYSTEMS 2010 , 18, 165-180		7
228	Optimum Matching of Heat Source Temperature to a Solar Adsorption Air-Conditioning System for Maximum Solar Cooling Coefficient of Performance. <i>International Journal of Green Energy</i> , 2010 , 7, 91-102		7
227	Structure- and composition-dependent electron field emission from nitrogenated carbon nanotips. <i>Journal of Applied Physics</i> , 2012 , 112, 084304	2.5	7
226	Performance analysis and validation on transportation of heat energy over long distance by ammonia-water absorption cycle. <i>International Journal of Energy Research</i> , 2010 , 34, 839-847	4.5	7
225	Pressure effect on the heat transfer in bath of superfluid helium. <i>Cryogenics</i> , 1998 , 38, 701-706	1.8	7
224	Study of a non-isothermal, non-isobaric consolidated reactive bed for chemisorption icemakers. <i>Chemical Engineering Journal</i> , 2008 , 138, 416-424	14.7	7
223	Simultaneous estimation of the temperature and heat rate distributions within the combustion region by a new inverse radiation analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002 , 74, 75-83	2.1	7
222	Fractal study of the fluctuation characteristic in the calibration of the cryogenic thermocouples. <i>Cryogenics</i> , 2003 , 43, 53-58	1.8	7

221	A Continuous Heat Regenerative Adsorption Refrigerator Using Spiral Plate Heat Exchanger as Adsorbers: Improvements. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1999 , 121, 14-19	3.3	7
220	Review of Recent Patents on Chemical Heat Pump. <i>Recent Patents on Engineering</i> , 2008 , 2, 208-216	0.3	7
219	Enhanced stability and hydrophobicity of LiX@ZIF-8 composite synthesized environmental friendly for CO ₂ capture in highly humid flue gas. <i>Chemical Engineering Journal</i> , 2021 , 410, 128322	14.7	7
218	An air-source hybrid absorption-compression heat pump with large temperature lift. <i>Applied Energy</i> , 2021 , 291, 116810	10.7	7
217	Simplified Space-heating Distribution Using Radiators in Super-insulated Apartment Buildings. <i>Energy Procedia</i> , 2016 , 96, 455-466	2.3	7
216	Microstructure and sorption performance of consolidated composites impregnated with LiCl. <i>International Journal of Refrigeration</i> , 2019 , 98, 452-458	3.8	7
215	Prediction of residential district heating load based on machine learning: A case study. <i>Energy</i> , 2021 , 231, 120950	7.9	7
214	A regulation strategy of sorbent stepwise position for boosting atmospheric water harvesting in arid area. <i>Cell Reports Physical Science</i> , 2021 , 2, 100561	6.1	7
213	Investigation on gradient thermal cycle for power and refrigeration cogeneration. <i>International Journal of Refrigeration</i> , 2017 , 76, 42-51	3.8	6
212	Performance analysis on a novel self-adaptive sorption system to reduce nitrogen oxides emission of diesel engine. <i>Applied Thermal Engineering</i> , 2017 , 127, 1077-1085	5.8	6
211	Modeling and simulation of a falling film evaporator for a water vapor heat pump system. <i>Applied Energy</i> , 2019 , 255, 113851	10.7	6
210	Potential of 5-azacytidine induction decidual stromal cells from maternal human term placenta towards cardiomyocyte-like cells in serum-free medium. <i>Cell and Tissue Banking</i> , 2015 , 16, 477-85	2.2	6
209	Demonstration of Mg(NO ₃) ₂ ·6H ₂ O-based composite phase change material for practical-scale medium-low temperature thermal energy storage. <i>Energy</i> , 2020 , 201, 117711	7.9	6
208	Investigation on innovative thermal conductive composite strontium chloride for ammonia sorption refrigeration. <i>International Journal of Refrigeration</i> , 2018 , 85, 157-166	3.8	6
207	Comparison study of a novel solid desiccant heat pump system with EnergyPlus. <i>Building Simulation</i> , 2014 , 7, 467-476	3.9	6
206	Dynamic characteristics of a novel adsorption refrigerator with compound mass-heat recovery. <i>International Journal of Energy Research</i> , 2013 , 37, 59-68	4.5	6
205	Performance analysis on a novel compact two-stage sorption refrigerator driven by low temperature heat source. <i>Energy</i> , 2017 , 135, 476-485	7.9	6
204	Performance and applicability of a dc refrigerator powered by the photovoltaics. <i>Journal of Renewable and Sustainable Energy</i> , 2010 , 2, 013101	2.5	6

203	Study on the adsorption performance of composite adsorbent of CaCl ₂ and expanded graphite with ammonia as adsorbate. <i>Energy Conversion and Management</i> , 2009 , 50, 1011-1017	10.6	6
202	Performance research of a micro-CCHP system with adsorption chiller. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010 , 15, 671-675	0.6	6
201	Investigation on adsorption refrigeration with a single adsorbent bed. <i>International Journal of Energy Research</i> , 1998 , 22, 1157-1163	4.5	6
200	Study of the Effects of Mass and Heat Recovery on the Performances of Activated Carbon/Ammonia Adsorption Refrigeration Cycles. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2002 , 124, 283-290	2.3	6
199	Viability of a practical multicyclic sorption-based water harvester with improved water yield.. <i>Water Research</i> , 2021 , 211, 118029	12.5	6
198	Nodal-pressure-based heating flow model for analyzing heating networks in integrated energy systems. <i>Energy Conversion and Management</i> , 2020 , 206, 112491	10.6	6
197	Thermal conductivity measurement of an individual millimeter-long expanded graphite ribbon using a variable-length T-type method. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121115	4.9	6
196	Introduction to solar heating and cooling systems 2016 , 3-12		6
195	Thermal Resistance-Capacitance Network Model for Fast Simulation on the Desiccant Coated Devices Used for Effective Electronic Cooling. <i>International Journal of Refrigeration</i> , 2021 ,	3.8	6
194	Easily-synthesized and low-cost amine-functionalized silica sol-coated structured adsorbents for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2021 , 425, 131409	14.7	6
193	Reply and closure to comments on "Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle" Taking multi-stage cycle as an example by M.M. Awad. <i>International Journal of Refrigeration</i> , 2017 , 82, 543-547	3.8	5
192	Entropy generation of supercritical water in a vertical tube with concentrated incident solar heat flux on one side. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 172-180	4.9	5
191	Development and thermal characteristics of a novel composite oleic acid for cold storage. <i>International Journal of Refrigeration</i> , 2019 , 100, 55-62	3.8	5
190	Research and development of a permanent-magnet synchronous frequency-convertible centrifugal compressor. <i>International Journal of Refrigeration</i> , 2020 , 117, 33-43	3.8	5
189	A modified ammonia-water power cycle using a distillation stage for more efficient power generation. <i>Energy</i> , 2017 , 138, 1-11	7.9	5
188	Experimental investigation on anti-condensation characteristic of desiccant coated metal cabinet. <i>Renewable Energy</i> , 2017 , 113, 835-845	8.1	5
187	PERFORMANCE IMPROVEMENT OF AN ADSORPTION CHILLER USING COMPOSITE ADSORBENT, SILICA GEL IMPREGNATED WITH LITHIUM CHLORIDE, PAIRED WITH METHANOL AS THE ADSORBATE 2014 , 22, 1440003		5
186	High-efficient thermochemical sorption refrigeration driven by low-grade thermal energy. <i>Science Bulletin</i> , 2009 , 54, 885-905	10.6	5

185	Development and performance test of a cryoprobe with heat transfer enhancement configuration. <i>Cryogenics</i> , 2006 , 46, 881-887	1.8	5
184	Multipeak characteristics of field emission energy distribution from semiconductors. <i>Physical Review B</i> , 2004 , 70,	3.3	5
183	Solution of the inverse radiative load problem in a two-dimensional system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002 , 74, 85-95	2.1	5
182	Investigation of non-equilibrium adsorption character in solid adsorption refrigeration cycle. <i>Heat and Mass Transfer</i> , 2005 , 41, 680-684	2.2	5
181	SIMULATION OF HEAT AND MASS TRANSFER PERFORMANCE WITH CONSOLIDATED COMPOSITE ACTIVATED CARBON. <i>Heat Transfer Research</i> , 2015 , 46, 109-122	3.9	5
180	Parametric investigation of photovoltaic-thermal systems integrated with porous phase change material. <i>Applied Thermal Engineering</i> , 2021 , 201, 117727	5.8	5
179	Study on Trough Receiver for Linear Concentrating Solar Collector 2008 , 711-715		5
178	Air-Source Heat Pump for Distributed Steam Generation: A New and Sustainable Solution to Replace Coal-Fired Boilers in China. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000118	5.9	5
177	Design principles for synthesizing high grade activated carbons for adsorption heat pumps. <i>Chemical Engineering Journal Advances</i> , 2021 , 6, 100086	3.6	5
176	A vapor compression-adsorption thermal management system for electric vehicle: Concept and working fluid pairs. <i>Energy Conversion and Management</i> , 2021 , 238, 114168	10.6	5
175	Reply to "Letter to the editor on "Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle "Taking multi-stage cycle as an example" by A. Bejan. <i>International Journal of Refrigeration</i> , 2018 , 90, 280-286	3.8	5
174	Selection and validation on low-GWP refrigerants for a water-source heat pump. <i>Applied Thermal Engineering</i> , 2021 , 193, 116938	5.8	5
173	Patent-based trend analysis for advanced thermal energy storage technologies and their applications. <i>International Journal of Energy Research</i> , 2020 , 44, 5093-5116	4.5	5
172	Theoretical investigation of a novel unitary solid desiccant air conditioner. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 151-156	1.8	4
171	Vegetal fiber paper matrix impregnated with silica gel for benzene removal. <i>Indoor Air</i> , 2019 , 29, 943-955.	5.4	4
170	Analysis on Bi ₂ Te ₃ thermoelectric cooler with silica aerogel encapsulation. <i>Energy Conversion and Management</i> , 2015 , 103, 981-990	10.6	4
169	Experimental investigation on a novel air-cooled single effect LiBr-H ₂ O absorption chiller with adiabatic flash evaporator and adiabatic absorber for residential application. <i>Solar Energy</i> , 2018 , 159, 579-587	6.8	4
168	Investigation on thermal characteristics of novel composite sorbent with carbon coated iron as additive. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 543-551	4.9	4

167	Low-Temperature Grain Storage with a Solar-Powered Adsorption Chiller: A Case Study. <i>International Journal of Green Energy</i> , 2014 , 11, 50-59	3	4
166	Solar-Powered Adsorption Icemaker With Double-Stage Mass Recovery Cycle. <i>Heat Transfer Engineering</i> , 2010 , 31, 941-949	1.7	4
165	Adsorption models and structural characterization for activated carbon fibers. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2009 , 14, 35-39	0.6	4
164	Electron interferometry in the proximity of amorphous ultrathin SiO ₂ /Bi. <i>Applied Physics Letters</i> , 2007 , 90, 182108	3.4	4
163	Experimental Analysis on the Dynamic Characteristics of a Heat-Regenerative Adsorptive Air-Conditioning System. <i>Adsorption</i> , 2002 , 8, 157-163	2.6	4
162	Transient measurement of temperature oscillation during noisy film boiling in superfluid helium II. <i>Science in China Series D: Earth Sciences</i> , 2001 , 44, 27-32		4
161	Non-planar and Non-linear Second Sound Waves in He II. <i>Chinese Physics Letters</i> , 2000 , 17, 43-45	1.8	4
160	Mesenchymal Stem Cells and Mononuclear Cells From Cord Blood: Cotransplantation Provides a Better Effect in Treating Myocardial Infarction. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 350-7	6.9	4
159	Experimental investigation on performance of desiccant coated microchannel heat exchangers under condensation conditions. <i>Energy and Buildings</i> , 2021 , 231, 110622	7	4
158	Energy grade splitting of hot water via a double effect absorption heat transformer. <i>Energy Conversion and Management</i> , 2021 , 230, 113821	10.6	4
157	Passive day and night heating for zero energy buildings with solar-based adsorption thermal battery. <i>Cell Reports Physical Science</i> , 2021 , 2, 100578	6.1	4
156	Multi-criterion comparison of compression and absorption heat pumps for ultra-low grade waste heat recovery. <i>Energy</i> , 2022 , 238, 121804	7.9	4
155	Ten megawatt scale vapor compression heat pump for low temperature waste heat recovery: Onsite application research. <i>Energy</i> , 2022 , 238, 121699	7.9	4
154	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. <i>Angewandte Chemie</i> , 2020 , 132, 5240-5248	3.6	3
153	Performance of a resorption cycle for recovering the waste heat from vehicles. <i>Science and Technology for the Built Environment</i> , 2015 , 21, 280-289	1.8	3
152	Simulation and experiments on a solid sorption combined cooling and power system driven by the exhaust waste heat. <i>Frontiers in Energy</i> , 2017 , 11, 516-526	2.6	3
151	Engineering design and experimental study of indoor air adsorption purification for people's health by removing hazard gases of H ₂ S and NH ₃ using different carbon adsorbents with filter and matrix. <i>Journal of Porous Materials</i> , 2017 , 24, 813-820	2.4	3
150	Experimental investigation of a novel phase change cold storage used for a solar air-conditioning system. <i>HVAC and R Research</i> , 2014 , 20, 302-310		3

149	A comparative analysis on experimental performance of CO ₂ trans-critical cycle. <i>HVAC and R Research</i> , 2014 , 20, 532-544		3
148	Thermal Characteristics in Two-Reactor Adsorption Refrigerator Using Metal Chloride Compound Adsorbent. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7327-7332	3.9	3
147	Solar-driven high temperature radiant cooling. <i>Science Bulletin</i> , 2009 , 54, 978-985	10.6	3
146	Transportation of low-grade thermal energy over long distance by ammonia-water absorption. <i>Science Bulletin</i> , 2009 , 54, 948-957	10.6	3
145	Study of heat and mass transfer in integrated thermal management controller (ITMC) employed in waste heat recovery application. <i>Energy Conversion and Management</i> , 2007 , 48, 3074-3083	10.6	3
144	A study on multifunction heat pipe type high efficient adsorption refrigerator using compound adsorbent ammonia. <i>Science Bulletin</i> , 2006 , 51, 239-242		3
143	Experimental Investigation of the Heat Transfer Characteristics of Liquid Nitrogen in the Capillary Tubes. <i>IEEE Transactions on Applied Superconductivity</i> , 2006 , 16, 449-452	1.8	3
142	Experimental investigation of integrated air purifying technology for bioaerosol removal and inactivation in central air-conditioning system. <i>Science Bulletin</i> , 2004 , 49, 306-310		3
141	A Combined Cycle of Heating and Adsorption Refrigeration: Theory and Experiment. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2002 , 124, 70-76	2.3	3
140	Selective excitation of odd gadolinium isotopes using two-colour photoionisation schemes. <i>Journal of Nuclear Materials</i> , 2000 , 282, 255-260	3.3	3
139	Criterion for quantum turbulence onset after rectangular heat pulse in superfluid helium. <i>Cryogenics</i> , 1995 , 35, 883-886	1.8	3
138	Ultralow-temperature-driven water-based sorption refrigeration enabled by low-cost zeolite-like porous aluminophosphate. <i>Nature Communications</i> , 2022 , 13, 193	17.4	3
137	Facile synthesis of Al-based MOF and its applications in desiccant coated heat exchangers. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 157, 112015	16.2	3
136	The Thermal Response of Heat Storage System With Paraffin and Paraffin/Expanded Graphite Composite for Hot Water Supply 2011 ,		3
135	A novel 3-D model of an industrial-scale tube-fin latent heat storage using salt hydrates with supercooling: A model validation. <i>Energy</i> , 2020 , 213, 118852	7.9	3
134	Experimental validation of an advanced heat pump system with high-efficiency centrifugal compressor. <i>Energy</i> , 2020 , 213, 118968	7.9	3
133	Feasibility study of an off-grid container unit for industrial construction. <i>Sustainable Cities and Society</i> , 2020 , 61, 102335	10.1	3
132	A novel semi-coupled solid desiccant heat pump system - Part 1: Simulation study. <i>International Journal of Refrigeration</i> , 2020 , 120, 150-160	3.8	3

131	Investigation on humidification performance of silica gel rotary wheel system in winter. <i>Building and Environment</i> , 2020 , 183, 107064	6.5	3
130	Enlarged temperature lift of hybrid compression-absorption heat transformer via deep thermal coupling. <i>Energy Conversion and Management</i> , 2021 , 234, 113954	10.6	3
129	Ammoniated salt based solid sorption thermal batteries: A comparative study. <i>Applied Thermal Engineering</i> , 2021 , 191, 116875	5.8	3
128	Modified layered double hydroxides for efficient and reversible carbon dioxide capture from air. <i>Cell Reports Physical Science</i> , 2021 , 2, 100484	6.1	3
127	Photovoltaic-powered solar cooling systems 2016 , 227-250		3
126	Cooling performance measurement of the reverse application of a coaxial free-piston Stirling engine. <i>Science and Technology for the Built Environment</i> , 2016 , 22, 556-564	1.8	3
125	Comparison-based optical study on a point-line-coupling-focus system with linear Fresnel heliostats. <i>Optics Express</i> , 2016 , 24, A966-73	3.3	3
124	Experimental study of heat and mass transfer for ammonia-water falling film absorption on novel S-shaped capillary tubes bundle. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120606	4.9	3
123	Air-source heat pump heating based water vapor compression for localized steam sterilization applications during the COVID-19 pandemic. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 145, 111026	16.2	3
122	Desiccant coated heat exchanger and its applications. <i>International Journal of Refrigeration</i> , 2021 , 130, 217-232	3.8	3
121	Thermally conductive and form-stable phase change composite for building thermal management. <i>Energy</i> , 2022 , 239, 121938	7.9	3
120	Multi-mode integrated system of adsorption refrigeration using desiccant coated heat exchangers for ultra-low grade heat utilization. <i>Energy</i> , 2022 , 238, 121813	7.9	3
119	An exergy analysis and parameter optimization of solid desiccant heat pumps recovering the condensation heat for desiccant regeneration and heat transfer enhancement. <i>Energy</i> , 2022 , 238, 121814	7.9	3
118	Distributed vacuum membrane distillation driven by direct-solar heating at ultra-low temperature. <i>Energy</i> , 2022 , 239, 121891	7.9	3
117	A review and perspective on industry high-temperature heat pumps. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 161, 112106	16.2	3
116	All-day freshwater production enabled by an active continuous sorption-based atmospheric water harvesting system. <i>Energy Conversion and Management</i> , 2022 , 264, 115745	10.6	3
115	On the dimensional analysis of a cross-flow flat-plate membrane liquid desiccant dehumidifier. <i>Energy Procedia</i> , 2019 , 158, 1467-1472	2.3	2
114	Solar PV Powered Heating and Cooling 2020 ,		2

113	Multi-function thermal system with natural refrigerant for a wide temperature range. <i>Applied Thermal Engineering</i> , 2019 , 162, 114189	5.8	2
112	Performance analysis of multistep sorption energy storage using compound adsorbents. <i>International Journal of Energy Research</i> , 2017 , 41, 2297-2307	4.5	2
111	Assessment of the Energy Performance of an Air Source Heat Pump by Response Surface Methodology. <i>Energy Procedia</i> , 2017 , 105, 439-444	2.3	2
110	The heat and mass transfer process of the counter-flow dew point evaporative cooler. <i>Energy Procedia</i> , 2017 , 142, 3805-3811	2.3	2
109	EXPERIMENTAL STUDY ON A TWO-STAGE LIQUID DESICCANT DEHUMIDIFICATION SYSTEM USING DUAL DESICCANT SOLUTIONS. <i>Heat Transfer Research</i> , 2015 , 46, 383-397	3.9	2
108	Performance of cryogenic regenerator with 3He as working fluid. <i>Science Bulletin</i> , 2011 , 56, 1732-1738		2
107	Heat Transfer Design in Adsorption Refrigeration Systems for Efficient Use of Low Grade Thermal Energy 2010 ,		2
106	Analytical and Experiment Study on the Chemical Reaction Kinetics of Composite Adsorbent Ammonia Working Pair. <i>Heat Transfer Engineering</i> , 2010 , 31, 931-940	1.7	2
105	Visual Study of Flow Pattern Evolution of Flow Boiling in a Microtube. <i>Heat Transfer Engineering</i> , 2011 , 32, 1009-1018	1.7	2
104	Study on a Novel Hybrid Desiccant Dehumidification and Air Conditioning System 2009 , 413-421		2
103	Design and Performance of a Constant Temperature and Humidity Air-Conditioning System Driven by a Ground Source Heat Pump in Summer. <i>Journal of Thermal Science and Engineering Applications</i> , 2010 , 2,	1.9	2
102	On corrosion to stainless steel by calcium chloride with different extender. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 181-184		2
101	Thermodynamic Diagrams of 3He from 0.2 K to 300 K Based Upon its Debye Fluid Equation of State. <i>International Journal of Thermophysics</i> , 2010 , 31, 774-783	2.1	2
100	Investigation of transient behavior of a novel thermal management controller. <i>Applied Thermal Engineering</i> , 2008 , 28, 824-834	5.8	2
99	An Effective Flat Plate Solar Heating and Cooling Hybrid System. <i>Adsorption Science and Technology</i> , 2003 , 21, 487-499	3.6	2
98	Calculation of NARM equilibrium with Peng-Robinson equation of state. <i>Journal of Thermal Science</i> , 2001 , 10, 127-132	1.9	2
97	Study of liquid column oscillation and vapour bubble oscillation resulting from film boiling in HeII. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 3296-3302	3	2
96	Pressure Fluctuation of $1/f$ in the Film Boiling of He II. <i>Chinese Physics Letters</i> , 2002 , 19, 540-542	1.8	2

95	Transient temperature measurement of noisy film boiling and silent film boiling in He II. <i>Cryogenics</i> , 2000 , 40, 241-244	1.8	2
94	Oscillatory phenomena related to noisy film boiling in superfluid helium II. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 264, 492-496	2.3	2
93	Binder-Free Growth of Aluminum-Based Metal-Organic Frameworks on Aluminum Substrate for Enhanced Water Adsorption Capacity. <i>Advanced Functional Materials</i> , 2010 , 20105267	15.6	2
92	Performance study of affine transformation and the advanced clear-sky model to improve intra-day solar forecasts. <i>Journal of Renewable and Sustainable Energy</i> , 2020 , 12, 043703	2.5	2
91	Analysis and Perspective on Heat Pump for Industrial Steam Generation. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000108	1.6	2
90	Field synergy analysis on heat and moisture transfer processes of desiccant coated heat exchanger. <i>International Journal of Thermal Sciences</i> , 2021 , 164, 106889	4.1	2
89	Solar-powered adsorption cooling systems 2016 , 299-328		2
88	Coupled heat and mass transfer analysis of NH ₃ -H ₂ O falling film absorption on inner tube surface with low solution flow rates. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2016 , 21, 395-405	0.6	2
87	A novel semi-coupled solid desiccant heat pump system Part 2: Experimental investigation. <i>International Journal of Refrigeration</i> , 2021 , 121, 86-94	3.8	2
86	Efficient Sensor Placement for Signal Reconstruction Based on Recursive Methods. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 1885-1898	4.8	2
85	Towards high-performance sorption cold energy storage and transmission with ionic liquid absorbents. <i>Energy Conversion and Management</i> , 2021 , 241, 114296	10.6	2
84	Understanding the transient behavior of the dew point evaporative cooler from the first and second law of thermodynamics. <i>Energy Conversion and Management</i> , 2021 , 244, 114471	10.6	2
83	Investigation of a high-efficient hybrid adsorption refrigeration system using desiccant coated heat exchangers. <i>Energy Conversion and Management</i> , 2021 , 246, 114654	10.6	2
82	Model predictive control for the performance improvement of air source heat pump heating system via variable water temperature difference. <i>International Journal of Refrigeration</i> , 2022 ,	3.8	2
81	A study on enthalpy exchanger with modified functional layers based on chloride. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 72-80	1.8	1
80	Sorption Thermal Energy Storage 2018 , 1109-1161		1
79	Solar Cooling Systems 2018 , 195-255		1
78	Progress in Sorption Thermal Energy Storage. <i>Lecture Notes in Energy</i> , 2017 , 541-572	0.4	1

77	Investigation of a novel composite sorbent for improved sorption characteristic. <i>Energy Procedia</i> , 2017 , 142, 1455-1461	2.3	1
76	Permeability and thermal conductivity of host compressed natural graphite for consolidated activated carbon adsorbent. <i>Frontiers in Energy</i> , 2011 , 5, 159-165	2.6	1
75	Flow and Heat Transfer Characteristics of Supercritical Nitrogen in Mini-Tube 2009 ,		1
74	Performance improvement of a combined double-way thermochemical sorption refrigeration cycle with reheating process. <i>AIChE Journal</i> , 2009 , 56, NA-NA	3.6	1
73	Thermal management controller for heat source temperature control and thermal management. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2009 , 14, 58-63	0.6	1
72	Experimental Investigation of the Hydraulic and Thermal Performance of a Phase Change Material Slurry in the Heat Exchangers. <i>Journal of Thermal Science and Engineering Applications</i> , 2011 , 3,	1.9	1
71	Thermal conductivity of helium-3 between 3 mK and 300 K 2012 ,		1
70	An Innovative Falling Film Evaporative Cooling With Recirculation Driven by Low-Grade Heat. <i>Journal of Thermal Science and Engineering Applications</i> , 2009 , 1,	1.9	1
69	Forced Flow and Convective Heat Transfer of Phase Change Material Slurry in the Heat Exchangers 2010 ,		1
68	Two step phase transition model of heat transfer in bath of subcooled superfluid helium. <i>Cryogenics</i> , 1998 , 38, 1035-1038	1.8	1
67	Study on Surface Tension of Fluid Helium Three. <i>International Journal of Thermophysics</i> , 2008 , 29, 1321-1327		1
66	Numerical Study of the Transient Heat Transfer in He II for Superconducting Device Cooling: A Comparison to Gorter-Mellink Equation. <i>IEEE Transactions on Applied Superconductivity</i> , 2006 , 16, 453-456 ^{1.8}		1
65	Adsorption refrigeration-green cooling driven by low grade thermal energy. <i>Science Bulletin</i> , 2005 , 50, 193		1
64	AN EXPERIMENTAL INVESTIGATION OF TEMPERATURE AND PRESSURE OSCILLATION IN THE BOILING OF LIQUID HELIUM. <i>Experimental Heat Transfer</i> , 2001 , 14, 315-329	2.4	1
63	Transient heat transfer from thin wires to a bath of sub-cooled superfluid helium. <i>Cryogenics</i> , 1996 , 36, 1-6	1.8	1
62	Normal zone propagation along superconducting wires in superfluid liquid helium. <i>Physica B: Condensed Matter</i> , 1991 , 169, 461-462	2.8	1
61	High-Performance Absorption Thermal Storage with Once-Through Discharging. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 720-730	8.3	1
60	Condensation of water vapor from humid air inside vertical channels formed by flat plates.. <i>IScience</i> , 2022 , 25, 103565	6.1	1

59	Application of Suction Line Heat Exchanger on Adsorption Refrigeration System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004 , 126, 671-673	2.3	1
58	Enhanced thermal conductivity and adsorption rate of zeolite 13X adsorbent by compression-induced molding method for sorption thermal battery. <i>Energy</i> , 2022 , 240, 122797	7.9	1
57	Comprehensive selection and assessment methodology of compression heat pump system. <i>Energy</i> , 2022 , 241, 122831	7.9	1
56	Designing thermoelectric self-cooling system for electronic devices: Experimental investigation and model validation. <i>Energy</i> , 2022 , 243, 123059	7.9	1
55	Performance of A Cold Storage Air-Conditioning Aystem Using Tetrabutylammonium Bromide Clathrate Hydrate Slurry 2011 ,		1
54	Modeling and optimization of a honeycombed adsorbent bed for efficient moisture capture. <i>Applied Thermal Engineering</i> , 2022 , 200, 117717	5.8	1
53	Analysis and Optimization on Performance of Parallel Two Stage Solar Liquid Desiccant Dehumidifier 2008 , 514-518		1
52	Left ventricular improvement due to allogeneic CB-MNCs transplantaion in a chronic heart failure six-years after myocardial infarction. <i>Cardiology Journal</i> , 2017 , 24, 224-226	1.4	1
51	Theoretical Performance Assessment of Low-GWP Refrigerant R1233zd(E) Applied in High Temperature Heat Pump System. <i>International Journal of Refrigeration</i> , 2021 , 131, 897-897	3.8	1
50	Data-driven sensor placement for efficient thermal field reconstruction. <i>Science China Technological Sciences</i> , 2021 , 64, 1981-1994	3.5	1
49	Numerical simulation of underground seasonal cold energy storage for a 10 MW solar thermal power plant in north-western China using TRNSYS. <i>Frontiers in Energy</i> , 2021 , 15, 328-344	2.6	1
48	Performance analysis of seasonal soil heat storage system based on numerical simulation and experimental investigation. <i>Renewable Energy</i> , 2021 , 178, 66-78	8.1	1
47	Insights into desiccant-based internally-cooled dehumidification using porous sorbents: From a modeling viewpoint. <i>Applied Energy</i> , 2022 , 311, 118732	10.7	1
46	Performance improvement of air-source heat pump heating system with variable water temperature difference. <i>Applied Thermal Engineering</i> , 2022 , 210, 118366	5.8	1
45	Reversible Sweat Cooling on Mobile Electronic Devices by Metal-Organic Frameworks based Moisture Sorption-Desorption Process. <i>Materials Today Nano</i> , 2022 , 100198	9.7	1
44	Performance simulation of underground seasonal solar energy storage in hot summer and cold winter zone in china. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 925-934	1.8	0
43	Experimental study of the heat transfer characteristics of liquid nitrogen in narrow channels. <i>Heat Transfer - Asian Research</i> , 2006 , 35, 582-588	2.8	0
42	Network flow calculation based on the directional nodal potential method for meshed heating networks. <i>Energy</i> , 2021 , 243, 122729	7.9	0

41	Planning of a distributed integrated cooling system in reducing the peak power consumption. <i>Energy Reports</i> , 2021 , 7, 458-468	4.6	o
40	Identification of Existing Challenges and Future Trends for the Utilization of Ammonia-Water Absorption-Compression Heat Pumps at High Temperature Operation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4635	2.6	o
39	Thermochemical heat storage for solar heating and cooling systems 2016 , 491-522		o
38	Model Predictive Control of Solar PV-Powered Ice-Storage Air-Conditioning System Considering Forecast Uncertainties. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 1672-1683	8.2	o
37	A dynamic model for predicting condensation heat and mass transfer characteristics in falling film condenser. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 176, 121434	4.9	o
36	Thermodynamic evaluation of three-phase absorption thermal storage in humid air with energy storage density over 600 kWh/m ³ . <i>Energy Conversion and Management</i> , 2022 , 258, 115476	10.6	o
35	CO ₂ capture-driven thermal battery using functionalized solvents for plus energy building application. <i>Energy Conversion and Management</i> , 2022 , 260, 115606	10.6	o
34	Novel Energy Systems for Smart Houses 2016 , 283-295		
33	Adsorption Working Pairs 2014 , 23-45		
32	Mechanism and Thermodynamic Properties of Physical Adsorption 2014 , 47-69		
31	Mechanism and Thermodynamic Properties of Chemical Adsorption 2014 , 71-95		
30	Adsorption Mechanism and Thermodynamic Characteristics of Composite Adsorbents 2014 , 97-133		
29	Adsorption Refrigeration Cycles 2014 , 135-232		
28	Technology of Adsorption Bed and Adsorption Refrigeration System 2014 , 233-271		
27	Design and Performance of the Adsorption Refrigeration System 2014 , 273-392		
26	Adsorption Refrigeration Driven by Solar Energy and Waste Heat 2014 , 393-488		
25	Novel adsorption refrigerators with separate type two phase closed thermosyphon designs. <i>International Journal of Energy Research</i> , 2015 , 39, 1681-1688	4.5	
24	Flow and Heat Transfer Characteristics of Supercritical Helium for Magnet Cooling. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 2054-2057	1.8	

- 23 Experimental research on dynamic operating characteristics of a novel silica gel-water adsorption chiller. *Frontiers of Energy and Power Engineering in China*, **2007**, 1, 347-351
- 22 Experimental Study of Boiling Phenomena of Liquid Nitrogen Around a Thin Wire Heater in Open Bath and Inside Capillary Tubes. *Nanoscale and Microscale Thermophysical Engineering*, **2006**, 10, 359-378^{3.7}
- 21 Performance evaluation of a novel liquid nitrogen cryoprobe. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2006, 486-9
- 20 Study of the Advanced Application Characteristics of a Solar Solid Adsorption Refrigerator. *Adsorption Science and Technology*, **2005**, 23, 347-356 3.6
- 19 Impact of refrigerant flowing resistance on active carbon-ammonia adsorption refrigeration cycle. *Applied Thermal Engineering*, **2005**, 25, 451-460 5.8
- 18 Thermal wave measurements in superfluid helium II. *Heat Transfer - Asian Research*, **2001**, 30, 419-425 2.8
- 17 Chaotic study of film boiling in superfluid helium. *Cryogenics*, **2001**, 41, 59-63 1.8
- 16 Experimental study of the narrow channel heat transfer in liquid nitrogen **2005**, 797-800
- 15 Experimental Investigation of Grain Low-Temperature Storage with a Novel Solar-Powered Adsorption Chiller **2008**, 904-908
- 14 Experimental Studies on Highly Concentrated Solar Radiation by Using Fresnel Lens Group **2008**, 698-701
- 13 Solar Cooling Systems **2018**, 1-61
- 12 Small Temperature Difference Terminals **2018**, 837-884
- 11 Sorption Thermal Energy Storage **2017**, 1-53
- 10 Low-Temperature Difference Terminals **2017**, 1-48
- 9 Small Temperature Difference Terminals **2017**, 1-48
- 8 Solar-powered absorption cooling systems **2016**, 251-298
- 7 Development of Solid Composite Sorbents. *Engineering Materials*, **2021**, 15-42 0.4
- 6 Properties of Solid Composite Sorbents. *Engineering Materials*, **2021**, 43-95 0.4

- 5 Kinetics of Solid Composite Sorbents. *Engineering Materials*, **2021**, 97-127 0.4
- 4 Solid Sorption Cycle for Refrigeration, Water Production, Eliminating NOx Emission and Heat Transfer. *Engineering Materials*, **2021**, 129-227 0.4
- 3 Solid Sorption Cycle for Energy Storage, Electricity Generation and Cogeneration. *Engineering Materials*, **2021**, 229-278 0.4
- 2 Heat Recovery for Adsorption Refrigeration System via Pinch Technology. *Journal of Thermal Science*, **2022**, 31, 379-389 1.9
- 1 An encapsulation protocol of salt-based composite sorbents for atmospheric water harvesting.. *STAR Protocols*, **2022**, 3, 101255 1.4