Ruzhu Wang

List of Publications by Year in Descending Order

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	High-Performance Absorption Thermal Storage with Once-Through Discharging. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 720-730	8.3	1
831	Condensation of water vapor from humid air inside vertical channels formed by flat plates.. *IScience* , **2022**, 25, 103565	6.1	1
830	Enhanced thermal conductivity and adsorption rate of zeolite 13X adsorbent by compression-induced molding method for sorption thermal battery. *Energy*, **2022**, 240, 122797	7.9	1
829	Ultralow-temperature-driven water-based sorption refrigeration enabled by low-cost zeolite-like porous aluminophosphate.. *Nature Communications*, **2022**, 13, 193	17.4	3
828	Comprehensive selection and assessment methodology of compression heat pump system. *Energy*, **2022**, 241, 122831	7.9	1
827	Designing thermoelectric self-cooling system for electronic devices: Experimental investigation and model validation. *Energy*, **2022**, 243, 123059	7.9	1
826	Facile synthesis of Al-based MOF and its applications in desiccant coated heat exchangers. *Renewable and Sustainable Energy Reviews*, **2022**, 157, 112015	16.2	3
825	Modeling and optimization of a honeycombed adsorbent bed for efficient moisture capture. *Applied Thermal Engineering*, **2022**, 200, 117717	5.8	1
824	Thermally conductive and form-stable phase change composite for building thermal management. *Energy*, **2022**, 239, 121938	7.9	3
823	Multi-criterion comparison of compression and absorption heat pumps for ultra-low grade waste heat recovery. *Energy*, **2022**, 238, 121804	7.9	4
822	Multi-mode integrated system of adsorption refrigeration using desiccant coated heat exchangers for ultra-low grade heat utilization. *Energy*, **2022**, 238, 121813	7.9	3
821	Ten megawatt scale vapor compression heat pump for low temperature waste heat recovery: Onsite application research. *Energy*, **2022**, 238, 121699	7.9	4
820	An exergy analysis and parameter optimization of solid desiccant heat pumps recovering the condensation heat for desiccant regeneration and heat transfer enhancement. *Energy*, **2022**, 238, 121811	7.9	3
819	Distributed vacuum membrane distillation driven by direct-solar heating at ultra-low temperature. *Energy*, **2022**, 239, 121891	7.9	3
818	Heat Recovery for Adsorption Refrigeration System via Pinch Technology. *Journal of Thermal Science*, **2022**, 31, 379-389	1.9	
817	Model predictive control for the performance improvement of air source heat pump heating system via variable water temperature difference. *International Journal of Refrigeration*, **2022**,	3.8	2
816	Thermodynamic evaluation of three-phase absorption thermal storage in humid air with energy storage density over 600 kWh/m3. *Energy Conversion and Management*, **2022**, 258, 115476	10.6	0

815	Insights into desiccant-based internally-cooled dehumidification using porous sorbents: From a modeling viewpoint. *Applied Energy*, **2022**, 311, 118732	10.7	1
814	Performance improvement of air-source heat pump heating system with variable water temperature difference. *Applied Thermal Engineering*, **2022**, 210, 118366	5.8	1
813	An encapsulation protocol of salt-based composite sorbents for atmospheric water harvesting.. *STAR Protocols*, **2022**, 3, 101255	1.4	
812	A review and perspective on industry high-temperature heat pumps. *Renewable and Sustainable Energy Reviews*, **2022**, 161, 112106	16.2	3
811	Reversible Sweat Cooling on Mobile Electronic Devices by Metal-Organic Frameworks based Moisture Sorption-Desorption Process. *Materials Today Nano*, **2022**, 100198	9.7	1
810	CO2 capture-driven thermal battery using functionalized solvents for plus energy building application. *Energy Conversion and Management*, **2022**, 260, 115606	10.6	0
809	All-day freshwater production enabled by an active continuous sorption-based atmospheric water harvesting system. *Energy Conversion and Management*, **2022**, 264, 115745	10.6	3
808	Photoswitchable phase change materials for unconventional thermal energy storage and upgrade. *Matter*, **2021**, 4, 3385-3399	12.7	9
807	High-yield solar-driven atmospheric water harvesting with ultra-high salt content composites encapsulated in porous membrane. *Cell Reports Physical Science*, **2021**, 100664	6.1	15
806	Network flow calculation based on the directional nodal potential method for meshed heating networks. *Energy*, **2021**, 243, 122729	7.9	0
805	Viability of a practical multicyclic sorption-based water harvester with improved water yield.. *Water Research*, **2021**, 211, 118029	12.5	6
804	Bioinspired topological design of super hygroscopic complex for cost-effective atmospheric water harvesting. *Nano Energy*, **2021**, 90, 106642	17.1	9
803	Parametric investigation of photovoltaic-thermal systems integrated with porous phase change material. *Applied Thermal Engineering*, **2021**, 201, 117727	5.8	5
802	Analysis and Perspective on Heat Pump for Industrial Steam Generation. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000108	1.6	2
801	Planning of a distributed integrated cooling system in reducing the peak power consumption. *Energy Reports*, **2021**, 7, 458-468	4.6	0
800	Dual-Functional Aligned and Interconnected Graphite Nanoplatelet Networks for Accelerating Solar Thermal Energy Harvesting and Storage within Phase Change Materials. *ACS Applied Materials & Interfaces*, **2021**, 13, 19200-19210	9.5	15
799	Enlarged temperature lift of hybrid compression-absorption heat transformer via deep thermal coupling. *Energy Conversion and Management*, **2021**, 234, 113954	10.6	3
798	Ultrahigh-Energy-Density Sorption Thermal Battery Enabled by Graphene Aerogel-Based Composite Sorbents for Thermal Energy Harvesting from Air. *ACS Energy Letters*, **2021**, 6, 1795-1802	20.1	21

797	Theoretical Performance Assessment of Low-GWP Refrigerant R1233zd(E) Applied in High Temperature Heat Pump System. *International Journal of Refrigeration*, **2021**, 131, 897-897	3.8	1
796	Enhanced stability and hydrophobicity of LiX@ZIF-8 composite synthesized environmental friendly for CO2 capture in highly humid flue gas. *Chemical Engineering Journal*, **2021**, 410, 128322	14.7	7
795	Design principles for synthesizing high grade activated carbons for adsorption heat pumps. *Chemical Engineering Journal Advances*, **2021**, 6, 100086	3.6	5
794	Multi-functional three-phase sorption solar thermal energy storage cycles for cooling, heating, and heat transformer. *Applied Thermal Engineering*, **2021**, 189, 116765	5.8	11
793	Identification of Existing Challenges and Future Trends for the Utilization of Ammonia-Water Absorption□Compression Heat Pumps at High Temperature Operation. *Applied Sciences (Switzerland)*, **2021**, 11, 4635	2.6	0
792	Air-cooled adsorption-based device for harvesting water from island air. *Renewable and Sustainable Energy Reviews*, **2021**, 141, 110802	16.2	23
791	Data-driven sensor placement for efficient thermal field reconstruction. *Science China Technological Sciences*, **2021**, 64, 1981-1994	3.5	1
790	Field synergy analysis on heat and moisture transfer processes of desiccant coated heat exchanger. *International Journal of Thermal Sciences*, **2021**, 164, 106889	4.1	2
789	Thermal conductivity measurement of an individual millimeter-long expanded graphite ribbon using a variable-length T-type method. *International Journal of Heat and Mass Transfer*, **2021**, 171, 121115	4.9	6
788	An air-source hybrid absorption-compression heat pump with large temperature lift. *Applied Energy* , **2021**, 291, 116810	10.7	7
787	Distributed solar desalination by membrane distillation: current status and future perspectives. *Water Research*, **2021**, 198, 117154	12.5	15
786	Ammoniated salt based solid sorption thermal batteries: A comparative study. *Applied Thermal Engineering*, **2021**, 191, 116875	5.8	3
785	A vapor compression-adsorption thermal management system for electric vehicle: Concept and working fluid pairs. *Energy Conversion and Management*, **2021**, 238, 114168	10.6	5
784	Adsorption-based atmospheric water harvesting. *Joule*, **2021**, 5, 1678-1703	27.8	33
783	Exergy-efficient boundary and design guidelines for atmospheric water harvesters with nano-porous sorbents. *Nano Energy*, **2021**, 85, 105977	17.1	17
782	Modified layered double hydroxides for efficient and reversible carbon dioxide capture from air. *Cell Reports Physical Science*, **2021**, 2, 100484	6.1	3
781	Numerical simulation of underground seasonal cold energy storage for a 10 MW solar thermal power plant in north-western China using TRNSYS. *Frontiers in Energy*, **2021**, 15, 328-344	2.6	1
780	Experimental study of heat and mass transfer for ammonia-water falling film absorption on novel S-shaped capillary tubes bundle. *International Journal of Heat and Mass Transfer*, **2021**, 164, 120606	4.9	3

779	Dehydration kinetics and thermodynamics of magnesium chloride hexahydrate for thermal energy storage. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110819	6.4	13
778	A novel semi-coupled solid desiccant heat pump system Part 2: Experimental investigation. *International Journal of Refrigeration*, **2021**, 121, 86-94	3.8	2
777	Vapor compression heat pumps with pure Low-GWP refrigerants. *Renewable and Sustainable Energy Reviews*, **2021**, 138, 110571	16.2	25
776	Experimental investigation on performance of desiccant coated microchannel heat exchangers under condensation conditions. *Energy and Buildings*, **2021**, 231, 110622	7	4
775	Application analysis of adsorption refrigeration system for solar and data center waste heat utilization. *Energy Conversion and Management*, **2021**, 228, 113564	10.6	10
774	Design of steam-assisted temperature vacuum-swing adsorption processes for efficient CO2 capture from ambient air. *Renewable and Sustainable Energy Reviews*, **2021**, 137, 110651	16.2	10
773	Transparent and Colored Solar Photovoltaics for Building Integration. *Solar Rrl*, **2021**, 5, 2000614	7.1	9
772	Development of Solid Composite Sorbents. *Engineering Materials*, **2021**, 15-42	0.4	
771	Properties of Solid Composite Sorbents. *Engineering Materials*, **2021**, 43-95	0.4	
770	Kinetics of Solid Composite Sorbents. *Engineering Materials*, **2021**, 97-127	0.4	
769	Solid Sorption Cycle for Refrigeration, Water Production, Eliminating NOx Emission and Heat Transfer. *Engineering Materials*, **2021**, 129-227	0.4	
768	Efficient Sensor Placement for Signal Reconstruction Based on Recursive Methods. *IEEE Transactions on Signal Processing*, **2021**, 69, 1885-1898	4.8	2
767	Energy grade splitting of hot water via a double effect absorption heat transformer. *Energy Conversion and Management*, **2021**, 230, 113821	10.6	4
766	Form-stable phase change composites: Preparation, performance, and applications for thermal energy conversion, storage and management. *Energy Storage Materials*, **2021**, 42, 380-380	19.4	38
765	Air-source heat pump heating based water vapor compression for localized steam sterilization applications during the COVID-19 pandemic. *Renewable and Sustainable Energy Reviews*, **2021**, 145, 111026	16.2	3
764	Selection and validation on low-GWP refrigerants for a water-source heat pump. *Applied Thermal Engineering*, **2021**, 193, 116938	5.8	5
763	Model Predictive Control of Solar PV-Powered Ice-Storage Air-Conditioning System Considering Forecast Uncertainties. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 1672-1683	8.2	0
762	Thermal Resistance-Capacitance Network Model for Fast Simulation on the Desiccant Coated Devices Used for Effective Electronic Cooling. *International Journal of Refrigeration*, **2021**,	3.8	6

761	Towards high-performance sorption cold energy storage and transmission with ionic liquid absorbents. *Energy Conversion and Management*, **2021**, 241, 114296	10.6	2
760	Understanding the transient behavior of the dew point evaporative cooler from the first and second law of thermodynamics. *Energy Conversion and Management*, **2021**, 244, 114471	10.6	2
759	Prediction of residential district heating load based on machine learning: A case study. *Energy*, **2021** , 231, 120950	7.9	7
758	Passive day and night heating for zero energy buildings with solar-based adsorption thermal battery. *Cell Reports Physical Science*, **2021**, 2, 100578	6.1	4
757	A regulation strategy of sorbent stepwise position for boosting atmospheric water harvesting in arid area. *Cell Reports Physical Science*, **2021**, 2, 100561	6.1	7
756	A dynamic model for predicting condensation heat and mass transfer characteristics in falling film condenser. *International Journal of Heat and Mass Transfer*, **2021**, 176, 121434	4.9	0
755	Investigation of a high-efficient hybrid adsorption refrigeration system using desiccant coated heat exchangers. *Energy Conversion and Management*, **2021**, 246, 114654	10.6	2
754	Desiccant coated heat exchanger and its applications. *International Journal of Refrigeration*, **2021**, 130, 217-232	3.8	3
753	Highly conductive phase change composites enabled by vertically-aligned reticulated graphite nanoplatelets for high-temperature solar photo/electro-thermal energy conversion, harvesting and storage. *Nano Energy*, **2021**, 89, 106338	17.1	30
752	Performance analysis of seasonal soil heat storage system based on numerical simulation and experimental investigation. *Renewable Energy*, **2021**, 178, 66-78	8.1	1
751	Easily-synthesized and low-cost amine-functionalized silica sol-coated structured adsorbents for CO2 capture. *Chemical Engineering Journal*, **2021**, 425, 131409	14.7	6
750	Solid Sorption Cycle for Energy Storage, Electricity Generation and Cogeneration. *Engineering Materials*, **2021**, 229-278	0.4	
749	Dual-Encapsulated Highly Conductive and Liquid-Free Phase Change Composites Enabled by Polyurethane/Graphite Nanoplatelets Hybrid Networks for Efficient Energy Storage and Thermal Management.. *Small*, **2021**, e2105647	11	9
748	Solar PV Powered Heating and Cooling **2020**,		2
747	Research and development of a permanent-magnet synchronous frequency-convertible centrifugal compressor. *International Journal of Refrigeration*, **2020**, 117, 33-43	3.8	5
746	Demonstration of Mg(NO3)2□6H2O-based composite phase change material for practical-scale medium-low temperature thermal energy storage. *Energy*, **2020**, 201, 117711	7.9	6
745	Double-section absorption heat pump for the deep recovery of low-grade waste heat. *Energy Conversion and Management*, **2020**, 220, 113072	10.6	17
744	Solar powered atmospheric water harvesting with enhanced LiCl /MgSO4/ACF composite. *Applied Thermal Engineering*, **2020**, 176, 115396	5.8	30

743	The performance comparison of high temperature heat pump among R718 and other refrigerants. *Renewable Energy*, **2020**, 154, 715-722	8.1	14
742	Dehumidification assessment for desiccant coated heat exchanger systems in different buildings and climates: Fast choice of desiccants. *Energy and Buildings*, **2020**, 221, 110083	7	8
741	Sorption thermal energy storage: Concept, process, applications and perspectives. *Energy Storage Materials*, **2020**, 27, 352-369	19.4	71
740	Composite □iCl/MWCNT/PVA□For adsorption thermal battery: Dynamics of methanol sorption. *Renewable and Sustainable Energy Reviews*, **2020**, 123, 109748	16.2	8
739	Super Atmospheric Water Harvesting Hydrogel with Alginate Chains Modified with Binary Salts **2020**, 2, 471-477		62
738	Experimental study on a double-stage absorption solar thermal storage system with enhanced energy storage density. *Applied Energy*, **2020**, 262, 114476	10.7	22
737	Thermal energy storage using absorption cycle and system: A comprehensive review. *Energy Conversion and Management*, **2020**, 206, 112482	10.6	39
736	A Thermal Management Strategy for Electronic Devices Based on Moisture Sorption-Desorption Processes. *Joule*, **2020**, 4, 435-447	27.8	58
735	Efficient Solar-Driven Water Harvesting from Arid Air with Metal□Organic Frameworks Modified by Hygroscopic Salt. *Angewandte Chemie*, **2020**, 132, 5240-5248	3.6	3
734	Air humidity assisted sorption thermal battery governed by reaction wave model. *Energy Storage Materials*, **2020**, 27, 9-16	19.4	24
733	Ultrahigh-efficiency desalination via a thermally-localized multistage solar still. *Energy and Environmental Science*, **2020**, 13, 830-839	35.4	153
732	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. *Angewandte Chemie - International Edition*, **2020**, 59, 5202-5210	16.4	85
731	Latent heat thermal storage using salt hydrates for distributed building heating: A multi-level scale-up research. *Renewable and Sustainable Energy Reviews*, **2020**, 121, 109712	16.2	19
730	Graphic general solutions for desiccant coated heat exchangers based on dimensional analysis. *International Journal of Heat and Mass Transfer*, **2020**, 154, 119654	4.9	8
729	Nodal-pressure-based heating flow model for analyzing heating networks in integrated energy systems. *Energy Conversion and Management*, **2020**, 206, 112491	10.6	6
728	Experimental investigation on the performance of a very high temperature heat pump with water refrigerant. *Energy*, **2020**, 190, 116427	7.9	16
727	A mathematical model to predict the performance of desiccant coated evaporators and condensers. *International Journal of Refrigeration*, **2020**, 109, 188-207	3.8	18
726	Seawater heat pumps in China, a spatial analysis. *Energy Conversion and Management*, **2020**, 203, 112240	10.6	14

725	Towards a thermodynamically favorable dew point evaporative cooler via optimization. *Energy Conversion and Management*, **2020**, 203, 112224	10.6	19
724	Thermophysical heat storage for cooling, heating, and power generation: A review. *Applied Thermal Engineering*, **2020**, 166, 114728	5.8	18
723	A novel 3-D model of an industrial-scale tube-fin latent heat storage using salt hydrates with supercooling: A model validation. *Energy*, **2020**, 213, 118852	7.9	3
722	Experimental validation of an advanced heat pump system with high-efficiency centrifugal compressor. *Energy*, **2020**, 213, 118968	7.9	3
721	Feasibility study of an off-grid container unit for industrial construction. *Sustainable Cities and Society*, **2020**, 61, 102335	10.1	3
720	Efficient CO2 capture from ambient air with amine-functionalized Mg□Al mixed metal oxides. *Journal of Materials Chemistry A*, **2020**, 8, 16421-16428	13	24
719	A novel semi-coupled solid desiccant heat pump system - Part 1: Simulation study. *International Journal of Refrigeration*, **2020**, 120, 150-160	3.8	3
718	Near-Zero-Energy Smart Battery Thermal Management Enabled by Sorption Energy Harvesting from Air. *ACS Central Science*, **2020**, 6, 1542-1554	16.8	34
717	Investigation on humidification performance of silica gel rotary wheel system in winter. *Building and Environment*, **2020**, 183, 107064	6.5	3
716	Highly thermally conductive and flexible phase change composites enabled by polymer/graphite nanoplatelet-based dual networks for efficient thermal management. *Journal of Materials Chemistry A*, **2020**, 8, 20011-20020	13	69
715	Air-Source Heat Pump for Distributed Steam Generation: A New and Sustainable Solution to Replace Coal-Fired Boilers in China. *Advanced Sustainable Systems*, **2020**, 4, 2000118	5.9	5
714	Performance study of affine transformation and the advanced clear-sky model to improve intra-day solar forecasts. *Journal of Renewable and Sustainable Energy*, **2020**, 12, 043703	2.5	2
713	Patent-based trend analysis for advanced thermal energy storage technologies and their applications. *International Journal of Energy Research*, **2020**, 44, 5093-5116	4.5	5
712	Vegetal fiber paper matrix impregnated with silica gel for benzene removal. *Indoor Air*, **2019**, 29, 943-955	5.4	4
711	Experimental study of an adsorption chiller for extra low temperature waste heat utilization. *Applied Thermal Engineering*, **2019**, 163, 114341	5.8	25
710	On the dimensional analysis of a cross-flow flat-plate membrane liquid desiccant dehumidifier. *Energy Procedia*, **2019**, 158, 1467-1472	2.3	2
709	Perspectives for short-term thermal energy storage using salt hydrates for building heating. *Energy* , **2019**, 189, 116139	7.9	22
708	Modeling and simulation of a falling film evaporator for a water vapor heat pump system. *Applied Energy*, **2019**, 255, 113851	10.7	6

707	Heat and mass transfer comparisons of desiccant coated microchannel and fin-and-tube heat exchangers. *Applied Thermal Engineering*, **2019**, 150, 1159-1167	5.8	26
706	Development and thermal characteristics of a novel composite oleic acid for cold storage. *International Journal of Refrigeration*, **2019**, 100, 55-62	3.8	5
705	Water sorption properties, diffusion and kinetics of zeolite NaX modified by ion-exchange and salt impregnation. *International Journal of Heat and Mass Transfer*, **2019**, 139, 990-999	4.9	12
704	On the in-depth scaling and dimensional analysis of a cross-flow membrane liquid desiccant dehumidifier. *Applied Energy*, **2019**, 250, 786-800	10.7	18
703	A Moisture-Penetrating Humidity Pump Directly Powered by One-Sun Illumination. *IScience*, **2019**, 15, 502-513	6.1	14
702	Sustainable agriculture for water-stressed regions by air-water-energy management. *Energy*, **2019**, 181, 1121-1128	7.9	15
701	Investigation on advanced heat pump systems with improved energy efficiency. *Energy Conversion and Management*, **2019**, 192, 161-170	10.6	17
700	Experimental investigation of an adsorption air-conditioner using silica gel-water working pair. *Solar Energy*, **2019**, 185, 64-71	6.8	22
699	Advanced thermochemical resorption heat transformer for high-efficiency energy storage and heat transformation. *Energy*, **2019**, 175, 1222-1233	7.9	11
698	A Full-Solid-State Humidity Pump for Localized Humidity Control. *Joule*, **2019**, 3, 1427-1436	27.8	23
697	High energy-density and power-density thermal storage prototype with hydrated salt for hot water and space heating. *Applied Energy*, **2019**, 248, 406-414	10.7	34
696	Perspectives on industrialized transportable solar powered zero energy buildings. *Renewable and Sustainable Energy Reviews*, **2019**, 108, 112-124	16.2	15
695	A unified single stage ammonia-water absorption system configuration with producing best thermal efficiencies for freezing, air-conditioning and space heating applications. *Energy*, **2019**, 174, 1039-1048	7.9	8
694	Investigation on novel desiccant wheel using wood pulp fiber paper with high coating ratio as matrix. *Energy*, **2019**, 176, 493-504	7.9	10
693	Investigation on energy consumption of desiccant coated heat exchanger based heat pump: Limitation of adsorption heat of desiccant. *Energy Conversion and Management*, **2019**, 188, 473-479	10.6	15
692	Perspectives for low-temperature waste heat recovery. *Energy*, **2019**, 176, 1037-1043	7.9	99
691	Mechanism of hysteresis for composite multi-halide and its superior performance for low grade energy recovery. *Scientific Reports*, **2019**, 9, 1563	4.9	11
690	Performance simulation of underground seasonal solar energy storage in hot summer and cold winter zone in china. *Science and Technology for the Built Environment*, **2019**, 25, 925-934	1.8	0

689	Multi-function thermal system with natural refrigerant for a wide temperature range. *Applied Thermal Engineering*, **2019**, 162, 114189	5.8	2
688	Modifying water sorption properties with polymer additives for atmospheric water harvesting applications. *Applied Thermal Engineering*, **2019**, 161, 114109	5.8	17
687	High energy-density multi-form thermochemical energy storage based on multi-step sorption processes. *Energy*, **2019**, 185, 1131-1142	7.9	35
686	Extraordinary air water harvesting performance with three phase sorption. *Materials Today Energy*, **2019**, 13, 362-373	7	24
685	An adaptive PID control method to improve the power tracking performance of solar photovoltaic air-conditioning systems. *Renewable and Sustainable Energy Reviews*, **2019**, 113, 109250	16.2	10
684	Feasibility and economic analysis of solution transportation absorption system for long-distance thermal transportation under low ambient temperature. *Energy Conversion and Management*, **2019**, 196, 793-806	10.6	9
683	High-Performance Thermally Conductive Phase Change Composites by Large-Size Oriented Graphite Sheets for Scalable Thermal Energy Harvesting. *Advanced Materials*, **2019**, 31, e1905099	24	135
682	Enhanced sorption heat transportation cycles with large concentration glide. *Energy Conversion and Management*, **2019**, 201, 112145	10.6	9
681	Solar PV-Battery-Electric Grid-Based Energy System for Residential Applications: System Configuration and Viability. *Research*, **2019**, 2019, 3838603	7.8	15
680	Thermally-pressurized sorption heat storage cycle with low charging temperature. *Energy*, **2019**, 189, 116304	7.9	8
679	Performance investigation of a freezing system with novel multi-salt sorbent for refrigerated truck. *International Journal of Refrigeration*, **2019**, 98, 129-138	3.8	11
678	Performance characterizations and thermodynamic analysis of magnesium sulfate-impregnated zeolite 13X and activated alumina composite sorbents for thermal energy storage. *Energy*, **2019**, 167, 889-901	7.9	30
677	Absorption seasonal thermal storage cycle with high energy storage density through multi-stage output. *Energy*, **2019**, 167, 1086-1096	7.9	29
676	Performance evaluation of different heating terminals used in air source heat pump system. *International Journal of Refrigeration*, **2019**, 98, 274-282	3.8	30
675	Extremely high efficient heat pump with desiccant coated evaporator and condenser. *Energy*, **2019**, 170, 569-579	7.9	25
674	Experimental investigation on performance of a novel composite desiccant coated heat exchanger in summer and winter seasons. *Energy*, **2019**, 166, 506-518	7.9	26
673	Microstructure and sorption performance of consolidated composites impregnated with LiCl. *International Journal of Refrigeration*, **2019**, 98, 452-458	3.8	7
672	Modeling and simulation on a water vapor high temperature heat pump system. *Energy*, **2019**, 168, 1063-1072	7.9	16

671	Experimental investigation on a novel air-cooled single effect LiBr-H2O absorption chiller with adiabatic flash evaporator and adiabatic absorber for residential application. *Solar Energy*, **2018**, 159, 579-587	6.8	4
670	Analysis on innovative resorption cycle for power and refrigeration cogeneration. *Applied Energy*, **2018**, 218, 10-21	10.7	7
669	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. *Applied Energy*, **2018**, 215, 457-467	10.7	8
668	On the fundamental heat and mass transfer analysis of the counter-flow dew point evaporative cooler. *Applied Energy*, **2018**, 217, 126-142	10.7	34
667	Analysis on integrated low grade condensation heat powered desiccant coated vapor compression system. *Applied Thermal Engineering*, **2018**, 138, 307-318	5.8	9
666	Comparison of absorption refrigeration cycles for efficient air-cooled solar cooling. *Solar Energy*, **2018**, 172, 14-23	6.8	25
665	Investigation on humidification effect of desiccant coated heat exchanger for improving indoor humidity environment in winter. *Energy and Buildings*, **2018**, 165, 1-14	7	12
664	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. *Applied Thermal Engineering*, **2018**, 134, 29-38	5.8	12
663	Composite LiCl/MWCNTs as advanced water sorbent for thermal energy storage: Sorption dynamics. *Solar Energy Materials and Solar Cells*, **2018**, 176, 273-279	6.4	28
662	Visualization study on capillary-spreading behavior of liquid droplet in vertically aligned carbon nanotube array. *International Journal of Heat and Mass Transfer*, **2018**, 120, 1055-1064	4.9	9
661	Moisture uptake dynamics on desiccant-coated, water-sorbing heat exchanger. *International Journal of Thermal Sciences*, **2018**, 126, 13-22	4.1	12
660	A homogeneous-heterogeneous model for mixed convection in gravity-driven film flow of nanofluids. *International Communications in Heat and Mass Transfer*, **2018**, 95, 19-24	5.8	16
659	Investigation on thermal characteristics of novel composite sorbent with carbon coated iron as additive. *International Journal of Heat and Mass Transfer*, **2018**, 125, 543-551	4.9	4
658	Study on operation strategy of a silica gel-water adsorption chiller in solar cooling application. *Solar Energy*, **2018**, 172, 24-31	6.8	36
657	Experimental and comparison study on heat and moisture transfer characteristics of desiccant coated heat exchanger with variable structure sizes. *Applied Thermal Engineering*, **2018**, 137, 32-46	5.8	25
656	Performance exploration of temperature swing adsorption technology for carbon dioxide capture. *Energy Conversion and Management*, **2018**, 165, 396-404	10.6	41
655	Refining energy sources in winemaking industry by using solar energy as alternatives for fossil fuels: A review and perspective. *Renewable and Sustainable Energy Reviews*, **2018**, 88, 278-296	16.2	44
654	Performance study of a grid-connected photovoltaic powered central air conditioner in the South China climate. *Renewable Energy*, **2018**, 126, 1113-1125	8.1	21

653	Solar heating and cooling: Present and future development. *Renewable Energy*, **2018**, 126, 1126-1140	8.1	99
652	Investigation of annual energy performance of a VWV air source heat pump system. *International Journal of Refrigeration*, **2018**, 85, 383-394	3.8	9
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