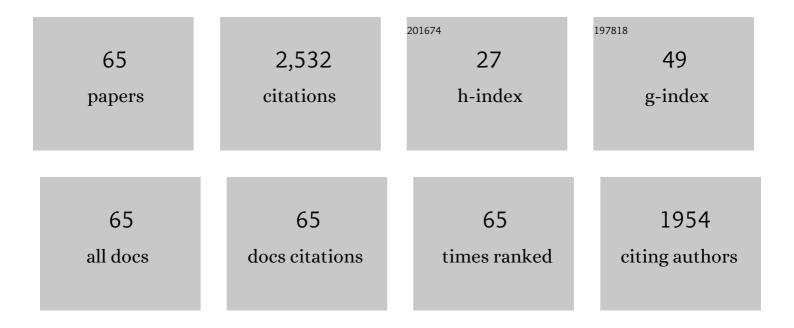
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Efficiency and optimal performance evaluation of organic Rankine cycle for low grade waste heat power generation. Energy, 2013, 50, 343-352.	8.8	197
2	State of the art on the high-temperature thermochemical energy storage systems. Energy Conversion and Management, 2018, 177, 792-815.	9.2	166
3	Optimal design approach for the plate-fin heat exchangers using neural networks cooperated with genetic algorithms. Applied Thermal Engineering, 2008, 28, 642-650.	6.0	161
4	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. Applied Energy, 2018, 232, 157-186.	10.1	150
5	A study on performance of a liquid air energy storage system with packed bed units. Applied Energy, 2018, 211, 126-135.	10.1	123
6	<i>n</i> -Alkanes Phase Change Materials and Their Microencapsulation for Thermal Energy Storage: A Critical Review. Energy & Fuels, 2018, 32, 7262-7293.	5.1	123
7	Thermal investigation of PCM-based high temperature thermal energy storage in packed bed. Energy Conversion and Management, 2014, 81, 420-427.	9.2	122
8	Thermodynamic analysis of an improved adiabatic compressed air energy storage system. Applied Energy, 2016, 183, 1361-1373.	10.1	107
9	Modeling on heat storage performance of compressed air in a packed bed system. Applied Energy, 2015, 160, 1-9.	10.1	94
10	Solidification performance of a latent heat storage unit with innovative longitudinal triangular fins. International Journal of Heat and Mass Transfer, 2019, 138, 667-676.	4.8	84
11	A review on synthesis, characterization and application of nanoencapsulated phase change materials for thermal energy storage systems. Applied Thermal Engineering, 2021, 185, 116326.	6.0	69
12	Study on heat transfer performance of an aluminum flat plate heat pipe with fins in vapor chamber. Energy Conversion and Management, 2013, 74, 44-50.	9.2	65
13	Neural networks analysis of thermal characteristics on plate-fin heat exchangers with limited experimental data. Applied Thermal Engineering, 2009, 29, 2251-2256.	6.0	61
14	Simulation of ligament mode breakup of molten slag by spinning disk in the dry granulation process. Applied Thermal Engineering, 2015, 84, 437-447.	6.0	54
15	An Improved Particle Swarm Algorithm for Optimal Design of Plate-Fin Heat Exchangers. Industrial & Engineering Chemistry Research, 2010, 49, 6144-6149.	3.7	47
16	Theoretical analysis of free-surface film flow on the rotary granulating disk in waste heat recovery process of molten slag. Applied Thermal Engineering, 2014, 63, 387-395.	6.0	45
17	Performance investigation of an innovative offset strip fin arrays in compact heat exchangers. Energy Conversion and Management, 2014, 80, 287-297.	9.2	45
18	Dynamic analysis of a novel standalone liquid air energy storage system for industrial applications. Energy Conversion and Management, 2021, 245, 114537.	9.2	38

#	Article	IF	CITATIONS
19	Predicting thermal–hydraulic performances in compact heat exchangers by support vector regression. International Journal of Heat and Mass Transfer, 2015, 84, 203-213.	4.8	37
20	Experimental Study on the Critical Characteristics of Liquid Atomization by a Spinning Disk. Industrial & amp; Engineering Chemistry Research, 2016, 55, 6175-6185.	3.7	36
21	Numerical study on solidification behavior and exergy analysis of a latent heat storage unit with innovative circular superimposed longitudinal fins. International Journal of Heat and Mass Transfer, 2021, 169, 120949.	4.8	36
22	Experimental investigate on thermal properties of a novel high temperature flat heat pipe receiver in solar power tower plant. Applied Thermal Engineering, 2016, 109, 610-618.	6.0	32
23	Analysis on flow and heat transfer characteristics of EGR helical baffled cooler with spiral corrugated tubes. Experimental Thermal and Fluid Science, 2013, 44, 275-284.	2.7	30
24	Numerical study on heat transfer and flow characteristics of novel microchannel heat sinks. International Journal of Thermal Sciences, 2022, 176, 107535.	4.9	30
25	Experimental Investigation of Ligament Formation Dynamics of Thin Viscous Liquid Film at Spinning Disk Edge. Industrial & Engineering Chemistry Research, 2016, 55, 9267-9275.	3.7	29
26	Synthesis and characterization of mixed alkanes microcapsules with phase change temperature below ice point for cryogenic thermal energy storage. Energy, 2019, 187, 115898.	8.8	28
27	Numerical modeling and experimental verification of flow and heat transfer over serrated fins at low Reynolds number. Experimental Thermal and Fluid Science, 2008, 32, 1039-1048.	2.7	27
28	Influence of rotary disk configurations on droplets characteristics in molten slag granulation for waste heat recovery. Applied Thermal Engineering, 2018, 135, 269-279.	6.0	27
29	Field synergy analysis on convective heat transfer and fluid flow of a novel triangular perforated fin. International Journal of Heat and Mass Transfer, 2013, 64, 526-535.	4.8	26
30	Experimental investigation of the heat transfer and flow characteristics of microchannels with microribs. International Journal of Heat and Mass Transfer, 2019, 143, 118482.	4.8	23
31	Ligament-type granulation of molten slag in different rotary disk configurations. Applied Thermal Engineering, 2018, 128, 1565-1578.	6.0	22
32	Cost-effectiveness performance analysis of organic Rankine cycle forÂlow grade heat utilization coupling with operation condition. Applied Thermal Engineering, 2013, 58, 571-584.	6.0	21
33	Numerical analysis on performance of naphthalene phase change thermal storage system in aluminum plate-fin unit. Heat and Mass Transfer, 2015, 51, 195-207.	2.1	21
34	Flow and heat transfer characteristics of a double-tube structure internal finned tube with blossom shape internal fins. Applied Thermal Engineering, 2018, 128, 1102-1115.	6.0	21
35	Starting characteristics of a novel high temperature flat heat pipe receiver in solar power tower plant based of"Flat-frontâ€Startup model. Energy, 2019, 183, 936-945.	8.8	21
36	Analysis of heat transfer and flow characteristics over serrated fins with different flow directions. Energy Conversion and Management, 2011, 52, 826-835.	9.2	20

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37	Nature-Inspired Structures Applied in Heat Transfer Enhancement and Drag Reduction. Micromachines, 2021, 12, 656.	2.9	19
38	Thermo-hydraulic performances of internally finned tube with a new type wave fin arrays. Applied Thermal Engineering, 2016, 98, 1174-1188.	6.0	18
39	Comparative study on natural convection melting in square cavity using lattice Boltzmann method. Results in Physics, 2020, 18, 103274.	4.1	18
40	Synthesis and Characterization of Nanoalumina and CNTs-Reinforced Microcapsules with <i>n</i> -Dodecane as a Phase Change Material for Cold Energy Storage. Energy & Fuels, 2020, 34, 7700-7708.	5.1	18
41	High-temperature analogy experimental investigation on dry granulating characteristic of rotating disk for waste heat utilization of molten slag. Applied Thermal Engineering, 2017, 125, 846-855.	6.0	17
42	Experimental study and thermodynamic modeling of solid-liquid equilibrium of binary systems: Dodecane-tetradedcane and tridecane-pentadecane for cryogenic thermal energy storage. Fluid Phase Equilibria, 2019, 493, 109-119.	2.5	16
43	Study on pulverized coal gasification using waste heat from high temperature blast furnace slag particles. International Journal of Hydrogen Energy, 2021, 46, 26848-26860.	7.1	15
44	Experimental and numerical analysis on heat transfer performance of slug flow in rectangular microchannel. International Journal of Heat and Mass Transfer, 2020, 147, 118963.	4.8	13
45	Nanoencapsulated n-tetradecane phase change materials with melamine–urea–formaldehyde–TiO2 hybrid shell for cold energy storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128162.	4.7	12
46	Visual experimental study on residence time of particle in plate rotary heat exchanger. Applied Thermal Engineering, 2017, 111, 213-222.	6.0	11
47	Comparative analysis of gas–liquid flow in T-junction microchannels with different inlet orientations. Advances in Mechanical Engineering, 2016, 8, 168781401663732.	1.6	10
48	Analogue experimental investigation on ligament granulation of molten slag in various rotary disk configurations for waste energy recovery. Results in Physics, 2018, 11, 385-393.	4.1	10
49	Experimental Measurements and Thermodynamic Modeling of Melting Temperature of the Binary Systems n-C11H24–n-C14H30, n-C12H26–n-C13H28, n-C12H26–n-C14H30, and n-C13H28–n-C15H32 Cryogenic Thermal Energy Storage. Industrial & Engineering Chemistry Research, 2019, 58, 15026-15035.	for 3.7	10
50	Study on the solidification characteristics of molten slag droplets cooled by mixed cooling medium. Applied Thermal Engineering, 2019, 149, 939-949.	6.0	10
51	Study on turbulent flow and heat transfer performance of tubes with internal fins in EGR cooler. Heat and Mass Transfer, 2015, 51, 1017-1027.	2.1	9
52	Experimental and numerical investigation on shell-and-tube exhaust gas recirculation cooler with different tube bundles. Heat and Mass Transfer, 2020, 56, 601-615.	2.1	9
53	Regulation of velocity zoning behaviour and hydraulic jump of impinging jet flow on a spinning disk reactor. Chemical Engineering Journal, 2020, 390, 124392.	12.7	9
54	Experimental Investigation on Transition Characteristics of Different Rotary Disk Configurations. Industrial & Engineering Chemistry Research, 2017, 56, 11281-11291.	3.7	8

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55	Thermal characteristics of the combined flat plate heat receiver in solar power tower plant. Energy, 2018, 165, 275-289.	8.8	8
56	The influence of the interaction between the multiple slag droplets on the solidification characteristics in humid air. Applied Thermal Engineering, 2020, 170, 115012.	6.0	8
57	An experimental and numerical investigation of air side heat transfer and flow characteristics on finned plate configuration. Heat and Mass Transfer, 2012, 48, 1707-1721.	2.1	7
58	Experimental study of boiling heat transfer and flow characteristics in fin channels with variable cross section. Experimental Thermal and Fluid Science, 2017, 84, 279-285.	2.7	7
59	An investigation on heat transfer of granular materials in the novel flighted rotary drum. Canadian Journal of Chemical Engineering, 2017, 95, 386-397.	1.7	7
60	The contact heat transfer between the heating plate and granular materials in rotary heat exchanger under overloaded condition. Results in Physics, 2018, 8, 600-609.	4.1	7
61	Experimental investigation on flow and heat transfer performance of a novel heat fin-plate radiator for electronic cooling. Heat and Mass Transfer, 2009, 45, 1575-1581.	2.1	6
62	Molecular investigation on the anomalous phenomenon at liquid desiccant surfaces for air conditioning. Building Simulation, 2020, 13, 599-608.	5.6	5
63	Experimental Investigation of Slag Particles of Ligament Mode Disintegration in Spinning Disk Atomizing. Energy Procedia, 2017, 105, 622-627.	1.8	3
64	Experimental investigation on particles characteristics in molten aluminum ligament granulation for waste energy recovery. Energy Procedia, 2019, 158, 4459-4464.	1.8	2
65	Experimental study and thermodynamic modeling of solid-liquid equilibrium of binary and ternary mixtures formed by C11H24, C12H26 and C14H30 for cryogenic thermal energy storage. International Journal of Refrigeration, 2020, 120, 378-387.	3.4	2