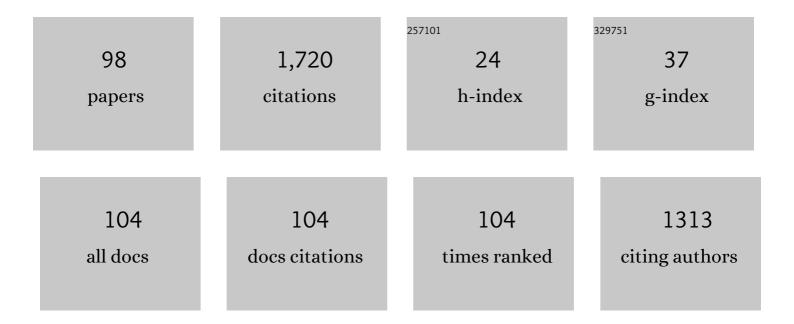
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dimensional optimization of a micro-channel heat sink using Jaya algorithm. Applied Thermal Engineering, 2016, 103, 572-582.	3.0	150
2	Numerical simulation of heat dissipation processes in underground power cable system situated in thermal backfill and buried in a multilayered soil. Energy Conversion and Management, 2015, 95, 352-370.	4.4	93
3	Renewable energy systems for building heating, cooling and electricity production with thermal energy storage. Renewable and Sustainable Energy Reviews, 2022, 165, 112560.	8.2	70
4	Thermal contact resistance in plate fin-and-tube heat exchangers, determined by experimental data and CFD simulations. International Journal of Thermal Sciences, 2014, 84, 309-322.	2.6	60
5	Determination of heat transfer formulas for gas flow in fin-and-tube heat exchanger with oval tubes using CFD simulations. Chemical Engineering and Processing: Process Intensification, 2014, 83, 1-11.	1.8	59
6	The performance analysis of a new thermal backfill material for underground power cable system. Applied Thermal Engineering, 2016, 108, 233-250.	3.0	57
7	Thermal performance optimization of the underground power cable system by using a modified Jaya algorithm. International Journal of Thermal Sciences, 2018, 123, 162-180.	2.6	57
8	Numerical analysis and parametric optimization on flow and heat transfer of a microchannel with longitudinal vortex generators. International Journal of Thermal Sciences, 2019, 141, 211-221.	2.6	51
9	Thermal analysis of underground power cable system. Journal of Thermal Science, 2017, 26, 465-471.	0.9	46
10	Simulation of fluid heating in combustion chamber waterwalls of boilers for supercritical steam parameters. Energy, 2015, 92, 117-127.	4.5	43
11	Comprehensive analysis of preparation strategies for phase change nanocomposites and nanofluids with brief overview of safety equipment. Journal of Cleaner Production, 2020, 274, 122963.	4.6	43
12	Numerical study of the effect of fouling on local heat transfer conditions in a high-temperature fin-and-tube heat exchanger. Energy, 2015, 92, 100-116.	4.5	41
13	Mathematical model of a supercritical power boiler for simulating rapid changes in boiler thermal loading. Energy, 2019, 175, 580-592.	4.5	41
14	Numerical study on the effect of inner tube fouling on the thermal performance of high-temperature fin-and-tube heat exchanger. Progress in Computational Fluid Dynamics, 2015, 15, 290.	0.1	40
15	Energy analysis of a thermal system composed by a heat pump coupled with a PVT solar collector. Energy, 2019, 174, 91-96.	4.5	38
16	Towards Efficient and Clean Process Integration: Utilisation of Renewable Resources and Energy-Saving Technologies. Energies, 2019, 12, 4092.	1.6	35
17	Modeling and experimental validation and thermal performance assessment of a sun-tracked and cooled PVT system under low solar irradiation. Energy Conversion and Management, 2020, 222, 113289.	4.4	35
18	Design Optimization of Heat Exchangers with Advanced Optimization Techniques: A Review. Archives of Computational Methods in Engineering, 2020, 27, 517-548.	6.0	31

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19	Optimizing of the underground power cable bedding usingÂmomentum-type particle swarm optimization method. Energy, 2015, 92, 230-239.	4.5	30
20	Low impact energy saving strategies for individual heating systems in a modern residential building: A case study in Rome. Journal of Cleaner Production, 2019, 214, 791-802.	4.6	30
21	An adaptive multi-team perturbation-guiding Jaya algorithm for optimization and its applications. Engineering With Computers, 2020, 36, 391-419.	3.5	30
22	Heat flux and temperature determination in a cylindrical element with the use of Finite Volume Finite Element Method. International Journal of Thermal Sciences, 2018, 127, 142-157.	2.6	27
23	Economic analysis of heat and electricity production in combined heat and power plant equipped with steam and water boilers and natural gas engines. Energy Conversion and Management, 2018, 176, 11-29.	4.4	25
24	Trombe Wall Utilization for Cold and Hot Climate Conditions. Energies, 2019, 12, 285.	1.6	24
25	Design optimization of a high-temperature fin-and-tube heat exchanger manifold – A case study. Energy, 2021, 215, 119059.	4.5	24
26	Fem-Based Thermal Analysis of Underground Power Cables Located in Backfills Made of Different Materials. Strength of Materials, 2015, 47, 770-780.	0.2	23
27	Effects of radiative exchange in an urban canyon on building surfaces' loads and temperatures. Energy and Buildings, 2017, 149, 260-271.	3.1	22
28	Model Predictive Control and energy optimisation in residential building with electric underfloor heating system. Energy, 2019, 182, 1028-1044.	4.5	22
29	Novel online simulation-ready models of conjugate heat transfer in combustion chamber waterwall tubes of supercritical power boilers. Energy, 2018, 148, 809-823.	4.5	20
30	CFD model and experimental verification of water turbine integrated with electrical generator. Energy, 2019, 185, 875-883.	4.5	20
31	Single- and Multi-Objective Design Optimization of Plate-Fin Heat Exchangers Using Jaya Algorithm. Heat Transfer Engineering, 2018, 39, 1201-1216.	1.2	19
32	3D numerical simulation of condensation and condensate behaviors on textured structures using lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2020, 160, 120198.	2.5	18
33	Experimental Validation of a Heat Transfer Model in Underground Power Cable Systems. Energies, 2020, 13, 1747.	1.6	18
34	Multiobjective optimization of underground power cable systems. Energy, 2021, 215, 119089.	4.5	18
35	Natural convection in a differentially heated enclosure filled with low Prandtl number fluids with modified lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2019, 143, 118562.	2.5	17
36	A <italic>Posteriori</italic> Multiobjective Self-Adaptive Multipopulation Jaya Algorithm for Optimization of Thermal Devices and Cycles. IEEE Access, 2019, 7, 4113-4134.	2.6	17

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37	Computational and experimental investigation of the aerodynamics and aeroacoustics of a small wind turbine with quasi-3D optimization. Energy Conversion and Management, 2018, 177, 143-149.	4.4	16
38	A novel 1D/2D model for simulating conjugate heat transfer applied to flow boiling in tubes with external fins. Heat and Mass Transfer, 2015, 51, 553-566.	1.2	15
39	Investigation of the flow conditions in a high-performance heat exchanger. Archives of Thermodynamics, 2010, 31, 37-53.	1.0	15
40	Multi-objective optimization of thermo-acoustic devices using teaching-learning-based optimization algorithm. Science and Technology for the Built Environment, 2017, 23, 1244-1252.	0.8	13
41	Computational investigation of a lifted hydrogen flame with LES and FGM. Energy, 2019, 173, 1172-1181.	4.5	13
42	The effect of soil thermal conductivity and cable ampacity on the thermal performance and material costs of underground transmission line. Energy, 2021, 231, 120803.	4.5	13
43	Simplified numerical study of evaporation processes inside vertical tubes. Journal of Thermal Science, 2014, 23, 177-186.	0.9	12
44	Experimental and Numerical Investigation of Flow Distribution within the Heat Exchanger with Elliptical Tubes. Procedia Engineering, 2016, 157, 428-435.	1.2	12
45	Location of the waste incineration plant with particular emphasis on the environmental criteria. Journal of Cleaner Production, 2021, 303, 126887.	4.6	11
46	Optimal design of Stirling heat engine using an advanced optimization algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 1321-1331.	0.8	10
47	Study of the Effect of Fin-and-Tube Heat Exchanger Fouling on its Structural Performance. Heat Transfer Engineering, 2018, 39, 1139-1155.	1.2	10
48	Thermal and economic analysis of preinsulated and twin-pipe heat network operation. Energy, 2020, 193, 116619.	4.5	9
49	Analysis of an application possibility of geopolymer materials as thermal backfill for underground power cable system. Clean Technologies and Environmental Policy, 2021, 23, 869-878.	2.1	9
50	Effect of mutual radiative exchange between the surfaces of a street canyon on the building thermal energy demand. Energy, 2021, 226, 120346.	4.5	9
51	Experimental investigation about the adoption of high reflectance materials on the envelope cladding on a scaled street canyon. Energy, 2021, 230, 120801.	4.5	9
52	Municipal power plan optimisation accounting for environmental footprints. Energy Conversion and Management, 2022, 254, 115296.	4.4	9
53	Comparative study of conjugate gradient algorithms performance on the example of steady-state axisymmetric heat transfer problem. Archives of Thermodynamics, 2013, 34, 15-44.	1.0	8
54	Experimental and analytical evaluation of a gas-liquid energy storage (GLES) prototype. Energy, 2021, 224, 120061.	4.5	8

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55	A New Solar Assisted Heat Pump System with Underground Energy Storage: Modelling and Optimisation. Energies, 2021, 14, 5137.	1.6	8
56	Minimum environmental footprint charging of electric vehicles: A spatiotemporal scenario analysis. Energy Conversion and Management, 2022, 258, 115532.	4.4	8
57	Numerical determination of temperature distribution in heating network. Energy, 2019, 183, 880-891.	4.5	7
58	Sensitivity analysis of hybrid combined heat and power plant on fuel and CO2 emission allowances price change. Energy Conversion and Management, 2019, 196, 127-148.	4.4	7
59	Natural convection in differentially heated enclosures subjected to variable temperature boundaries. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4130-4141.	1.6	7
60	The analysis of gradient algorithm effectiveness - two dimensional heat transfer problem. Archives of Thermodynamics, 2010, 31, 37-50.	1.0	7
61	Evaluation and selection of energy technologies using an integrated graph theory and analytic hierarchy process methods. Decision Science Letters, 2016, , 327-348.	0.5	6
62	Economic analysis of heat production in existing medium size combined heat and power plant, with respect to the CO2 allowances purchasing cost. Energy Conversion and Management, 2018, 171, 110-125.	4.4	6
63	Experimental stand for investigation of fluid flow in heat exchangers with cross-flow arrangement. E3S Web of Conferences, 2017, 13, 02001.	0.2	5
64	The effect of soil and cable backfill thermal conductivity on the temperature distribution in underground cable system. E3S Web of Conferences, 2017, 13, 02004.	0.2	5
65	Energetical Analysis of Two Different Configurations of a Liquid-Gas Compressed Energy Storage. Energies, 2018, 11, 3405.	1.6	5
66	Numerical simulation of water evaporation inside vertical circular tubes. , 2013, , .		4
67	Monitoring of the Stress State in the Boiler Drum Using Finite Element Method. Advanced Materials Research, 2014, 875-877, 1176-1182.	0.3	4
68	Tilt optimization of a double-glazed air solar collector prototype. MATEC Web of Conferences, 2018, 240, 04006.	0.1	4
69	Investigation of flow non-uniformities in the cross-flow heat exchanger with elliptical tubes. E3S Web of Conferences, 2019, 108, 01009.	0.2	4
70	Numerical investigation of heat transfer from flow over square cylinder placed in a confined channel using Cu-water nanofluid. Thermal Science, 2019, 23, 1367-1380.	0.5	4
71	Numerical study of air convection in a rectangular enclosure with two isothermal blocks and oscillating bottom wall temperature. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 103-117.	1.6	3
72	Simulation of water turbine integrated with electrical generator. MATEC Web of Conferences, 2018, 240, 05002.	0.1	3

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73	Buoyancy assist adaptive charging and discharging thermal storage tank. Energy Storage, 2019, 1, e287.	2.3	3
74	Numerical investigation of semiempirical relations representing the local Nusselt number magnitude of a pin fin heat sink. Heat Transfer - Asian Research, 2019, 48, 1857-1888.	2.8	3
75	The Wind Test on Heat Loss from Three Coil Cavity Receiver for a Parabolic Dish Collector. E3S Web of Conferences, 2019, 128, 01006.	0.2	3
76	NUMERICAL INVESTIGATION OF CONJUGATE HEAT TRANSFER FROM LAMINAR WALL JET FLOW OVER A SHALLOW CAVITY. Heat Transfer Research, 2018, 49, 1151-1170.	0.9	3
77	Influence of the geometrical parameters of urban canyons on the convective heat transfer coefficient. Thermal Science, 2019, 23, 1211-1223.	0.5	3
78	Computer-Aided Determination of the Air-Side Heat Transfer Coefficient and Thermal Contact Resistance for a Fin-and-Tube Heat Exchanger. , 2015, , .		2
79	Transient Natural Convection in a Thermally Insulated Annular Cylinder Exposed to a High Temperature from the Inner Radius. Energies, 2020, 13, 1291.	1.6	2
80	Multi-objective Design Optimization of Shell-and-Tube Heat Exchanger Using Multi-objective SAMP-Jaya Algorithm. Advances in Intelligent Systems and Computing, 2020, , 831-838.	0.5	2
81	Contribution to encyclopedia of thermal stresses. Journal of Thermal Science, 2015, 24, 215-220.	0.9	1
82	Buoyancy-induced convection of water-based nanofluids from an enclosed heated cylinder. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2734-2755.	1.6	1
83	Verification of applicability of the two-equation turbulence models for temperature distribution in transitional flow in an elliptical tube. Thermal Science, 2019, 23, 1113-1121.	0.5	1
84	Heat loss analysis of three coil cylindrical solar cavity receiver of parabolic dish for process heat. Thermal Science, 2019, 23, 1301-1310.	0.5	1
85	Multi-Function Device for Creep Testing at Elevated Temperature. Advanced Materials Research, 2014, 875-877, 462-466.	0.3	0
86	Numerical investigation of flow and heat transfer from a block placed in a cavity subject to different inlet conditions. Progress in Computational Fluid Dynamics, 2017, 17, 385.	0.1	0
87	Selected Papers from the 9th International Conference on Computational Heat and Mass Transfer (ICCHMT2016). Heat Transfer Engineering, 2018, 39, 1101-1102.	1.2	0
88	Effect of baffle shape in heat transfer for jet impingement on a solid block. MATEC Web of Conferences, 2018, 240, 01025.	0.1	0
89	Selected Papers from the XI International Conference on Computational Heat, Mass and Momentum Transfer (ICCHMT 2018). Energies, 2019, 12, 2259.	1.6	0
90	Buoyancy-Induced Convection in Water From a Pair of Horizontal Heated Cylinders Enclosed in a Square Cooled Cavity. Heat Transfer Engineering, 2021, 42, 205-214.	1.2	0

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91	Optimization of Underground Power Cable Systems. Lecture Notes in Energy, 2021, , 141-170.	0.2	Ο
92	Zero-Emission Building Heating System Using Thermal Energy Accumulation in the Ground. Lecture Notes in Energy, 2021, , 37-56.	0.2	0
93	Storage of Thermal Energy in the Ground. Lecture Notes in Energy, 2021, , 15-25.	0.2	Ο
94	Mathematical Modelling of the Resheat System. Lecture Notes in Energy, 2021, , 57-97.	0.2	0
95	Resheat System Optimization. Lecture Notes in Energy, 2021, , 99-106.	0.2	0
96	Solar-Assisted Heat Pumps. Lecture Notes in Energy, 2021, , 27-36.	0.2	0
97	Economic Analysis. Lecture Notes in Energy, 2021, , 131-136.	0.2	Ο
98	Investigation of forced convective heat transfer from a block located staggered cavity with parallel and anti-parallel wall motion. Thermal Science, 2019, 23, 1281-1288.	0.5	0