

Seyed Soheil Mousavi Ajarostaghi

List of Publications by Year in descending order

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65
papers

1,924
citations

230014

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325983

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65
all docs

65
docs citations

65
times ranked

895
citing authors

#	ARTICLE	IF	CITATIONS
1	On post-fire bond strength of steel rebar embedded in thermally-damaged concrete – a review. Journal of Adhesion Science and Technology, 2023, 37, 370-410.	1.4	10
2	Numerical evaluation of the heat transfer and fluid flow in a corrugated coil tube with lobe-shaped cross-section and two types of spiral twisted tape as swirl generator. Journal of Thermal Analysis and Calorimetry, 2022, 147, 999-1015.	2.0	29
3	Thermal analysis of nanofluids flow in a double pipe heat exchanger with twisted tapes insert in both sides. Journal of Thermal Analysis and Calorimetry, 2022, 147, 3965-3976.	2.0	27
4	A comprehensive review of micro/nano enhanced phase change materials. Journal of Thermal Analysis and Calorimetry, 2022, 147, 3989-4016.	2.0	42
5	Numerical evaluation of the heat transfer enhancement in a tube with a curved conical turbulator insert. International Journal of Ambient Energy, 2022, 43, 5218-5231.	1.4	13
6	Impact of innovative fin combination of triangular and rectangular fins on melting process of phase change material in a cavity. Journal of Energy Storage, 2022, 45, 103545.	3.9	29
7	Modified model of reduction condensing losses strategy into the wet steam flow considering efficient energy of steam turbine based on injection of nano-droplets. Energy, 2022, 242, 122951.	4.5	5
8	Accelerating the charging process in a shell and dual coil ice storage unit equipped with connecting plates. International Journal of Energy Research, 2022, 46, 7460-7478.	2.2	25
9	A Review of Recent Passive Heat Transfer Enhancement Methods. Energies, 2022, 15, 986.	1.6	60
10	Compound Heat Transfer Augmentation of a Shell-and-Coil Ice Storage Unit with Metal-Oxide Nano Additives and Connecting Plates. Nanomaterials, 2022, 12, 1010.	1.9	21
11	Hydrothermal performance of humid air flow in a rectangular solar air heater equipped with V-shaped ribs. Energy Science and Engineering, 2022, 10, 2276-2289.	1.9	8
12	Assessment of the charging performance in a cold thermal energy storage container with two rows of serpentine tubes and extended surfaces. Journal of Energy Storage, 2022, 51, 104464.	3.9	35
13	Utilization of Carbon-Based Nanomaterials and Plate-Fin Networks in a Cold PCM Container with Application in Air Conditioning of Buildings. Nanomaterials, 2022, 12, 1927.	1.9	23
14	Solar energy conversion technologies: principles and advancements. , 2022, , 29-76.		1
15	Turbulence and thermo-flow behavior of air in a rectangular channel with partially inclined baffles. Energy Science and Engineering, 2022, 10, 3540-3558.	1.9	7
16	On the thermal performance of evacuated tube solar collector integrated with phase change material. Sustainable Energy Technologies and Assessments, 2022, 53, 102437.	1.7	12
17	Laminar heat transfer and fluid flow of two various hybrid nanofluids in a helical double-pipe heat exchanger equipped with an innovative curved conical turbulator. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1455-1466.	2.0	57
18	Melting and solidification processes of phase change material in evacuated tube solar collector with U-shaped spirally corrugated tube. Applied Thermal Engineering, 2021, 182, 116149.	3.0	60

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19	Influence of a curved conical turbulator on heat transfer augmentation in a helical double pipe heat exchanger. <i>Heat Transfer</i> , 2021, 50, 1872-1894.	1.7	10
20	Numerical evaluation of turbulence heat transfer and fluid flow of hybrid nanofluids in a pipe with innovative vortex generator. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1583-1597.	2.0	38
21	Effect of Magnetic Field and Nanoparticle Concentration on Melting of Cu-Ice in a Rectangular Cavity under Fluctuating Temperatures. <i>Journal of Energy Storage</i> , 2021, 36, 102421.	3.9	23
22	Numerical evaluation of the heat transfer in a shell and corrugated coil tube heat exchanger with three various water based nanofluids. <i>Heat Transfer</i> , 2021, 50, 6043-6067.	1.7	16
23	Heat transfer improvement in a tube by inserting perforated conical ring and wire coil as turbulators. <i>Heat Transfer</i> , 2021, 50, 6164-6188.	1.7	14
24	Impact of Employing Hybrid Nanofluids as Heat Carrier Fluid on the Thermal Performance of a Borehole Heat Exchanger. <i>Energies</i> , 2021, 14, 2892.	1.6	18
25	Thermal Performance Enhancement Using Absorber Tube with Inner Helical Axial Fins in a Parabolic Trough Solar Collector. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7423.	1.3	24
26	Hydrothermal analysis of heat transfer and thermal performance characteristics in a parabolic trough solar collector with Turbulence-Inducing elements. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101266.	1.7	20
27	Hybrid nanofluid flow and heat transfer in a parabolic trough solar collector with inner helical axial fins as turbulator. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	22
28	Numerical modeling of an innovative arc shape rib based solar air heater. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 7992-8012.	1.1	11
29	MPPT Improvement for PMSG-Based Wind Turbines Using Extended Kalman Filter and Fuzzy Control System. <i>Energies</i> , 2021, 14, 7503.	1.6	16
30	An advanced turbulator with blades and semi-conical section for heat transfer improvement in a helical double tube heat exchanger. <i>Journal of Central South University</i> , 2021, 28, 3491-3506.	1.2	3
31	Thermal performance of a single U-tube ground heat exchanger: A parametric study. <i>Journal of Central South University</i> , 2021, 28, 3580-3598.	1.2	9
32	Numerical evaluation of the effect of using twisted tapes as turbulator with various geometries in both sides of a double-pipe heat exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1341-1353.	2.0	58
33	Thermal mixing, cooling and entropy generation in a micromixer with a porous zone by the lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1321-1339.	2.0	28
34	Numerical evaluation of the effect of geometrical and operational parameters on thermal performance of nanofluid flow in convergent-divergent tube. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1483-1505.	2.0	27
35	Extensive numerical analysis of the thermal performance of a corrugated tube with coiled wire. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1469-1481.	2.0	31
36	Numerical evaluation of the thermal performance of a solar air heater equipped with two different types of baffles. <i>Heat Transfer</i> , 2020, 49, 1149-1169.	1.7	39

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37	Influence of geometrical parameters arrangement on solidification process of ice-on-coil storage system. SN Applied Sciences, 2020, 2, 1.	1.5	9
38	Analytical and finite element investigations of the cross-arranged trapezoidal- and sinusoidal-corrugated-cores panels. Mechanics of Advanced Materials and Structures, 2020, , 1-11.	1.5	4
39	Numerical prediction of humidification process in planar porous membrane humidifier of a PEM fuel cell system to evaluate the effects of operating and geometrical parameters. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1687-1701.	2.0	9
40	Numerical Study on the Thermal Performance of a Single U-Tube Borehole Heat Exchanger Using Nano-Enhanced Phase Change Materials. Energies, 2020, 13, 5156.	1.6	38
41	Thermodynamic analysis the performance of hybrid solar-geothermal power plant equipped with air-cooled condenser. Applied Thermal Engineering, 2020, 172, 115160.	3.0	33
42	Numerical evaluation and the effects of geometrical and operational parameters on thermal performance of the shell and double coil tube heat exchanger. Heat Transfer, 2020, 49, 4678-4703.	1.7	19
43	Thermodynamic-CFD analysis of waste heat recovery from homogeneous charge compression ignition (HCCI) engine by Recuperative organic Rankine Cycle (RORC): Effect of operational parameters. Energy, 2020, 205, 117989.	4.5	8
44	Numerical evaluation of the effect of utilizing twisted tape with curved profile as a turbulator on heat transfer enhancement in a pipe. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1537-1553.	2.0	30
45	The latent heat recovery from boiler exhaust flue gas using shell and corrugated tube heat exchanger: A numerical study. Heat Transfer, 2020, 49, 3797-3815.	1.7	11
46	A critical review of the effect of concrete composition on rebar-concrete interface (RCI) bond strength: A case study of nanoparticles. SN Applied Sciences, 2020, 2, 1.	1.5	19
47	Development on evacuated tube solar collectors: A review of the last decade results of using nanofluids. Solar Energy, 2020, 211, 265-282.	2.9	81
48	Numerical Study of a Horizontal and Vertical Shell and Tube Ice Storage Systems Considering Three Types of Tube. Applied Sciences (Switzerland), 2020, 10, 1059.	1.3	20
49	Evaluation the effects of geometrical parameters on the performance of pillow plate heat exchanger. Chemical Engineering Research and Design, 2019, 150, 74-83.	2.7	37
50	Numerical Modeling of the Melting Process in a Shell and Coil Tube Ice Storage System for Air-Conditioning Application. Applied Sciences (Switzerland), 2019, 9, 2726.	1.3	27
51	Effects of geometrical and operational parameters on heat transfer and fluid flow of three various water based nanofluids in a shell and coil tube heat exchanger. SN Applied Sciences, 2019, 1, 1.	1.5	36
52	The influence of geometrical parameters on the ice formation enhancement in a shell and double coil ice storage system. SN Applied Sciences, 2019, 1, 1.	1.5	26
53	Numerical simulation of solidification process in an ice-on-coil ice storage system with serpentine tubes. SN Applied Sciences, 2019, 1, 1.	1.5	32
54	Improve the thermal performance of the pillow plate heat exchanger by using nanofluid: Numerical simulation. Advanced Powder Technology, 2019, 30, 1356-1365.	2.0	75

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55	Performance of ground heat exchangers: A comprehensive review of recent advances. <i>Energy</i> , 2019, 178, 207-233.	4.5	128
56	Thermal analysis of a triple helix ground heat exchanger using numerical simulation and multiple linear regression. <i>Geothermics</i> , 2019, 81, 53-73.	1.5	35
57	Performance analysis of helical ground heat exchangers with different configurations. <i>Applied Thermal Engineering</i> , 2019, 154, 24-36.	3.0	64
58	Experiments on mist flow and heat transfer in a tube fitted with porous media. <i>International Journal of Thermal Sciences</i> , 2019, 137, 388-398.	2.6	45
59	Thermodynamic analysis of waste heat recovery from hybrid system of proton exchange membrane fuel cell and vapor compression refrigeration cycle by recuperative organic Rankine cycle. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1699-1712.	2.0	31
60	A Comprehensive Review of Backfill Materials and Their Effects on Ground Heat Exchanger Performance. <i>Sustainability</i> , 2018, 10, 4486.	1.6	43
61	Waste heat recovery from a 1180 kW proton exchange membrane fuel cell (PEMFC) system by Recuperative organic Rankine cycle (RORC). <i>Energy</i> , 2018, 157, 353-366.	4.5	57
62	An experimental investigation on forced convection heat transfer of single-phase flow in a channel with different arrangements of porous media. <i>International Journal of Thermal Sciences</i> , 2018, 134, 370-379.	2.6	86
63	NUMERICAL INVESTIGATION OF MELTING PROCESS IN HORIZONTAL SHELL-AND-TUBE PHASE CHANGE MATERIAL STORAGE CONSIDERING DIFFERENT HTF CHANNEL GEOMETRIES. <i>Heat Transfer Research</i> , 2017, 48, 1515-1529.	0.9	11
64	Heat transfer performance of a nanofluid-filled tube with wall corrugations and center-cleared twisted-tape inserts. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-21.	1.2	27
65	NUMERICAL INVESTIGATION OF NON-UNIFORM HEAT TRANSFER ENHANCEMENT IN PARABOLIC TROUGH SOLAR COLLECTORS USING DUAL MODIFIED TWISTED-TAPE INSERTS. <i>Journal of Thermal Engineering</i> , 0, , 133-147.	0.8	12