Ataollah Khanlari

List of Publications by Year
in descending order

28 papers	1,575 citations	279798 23 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	549 citing authors

#	Article	IF	Citations
1	Experimental and numerical study of the effect of integrating plus-shaped perforated baffles to solar air collector in drying application. Renewable Energy, 2020, 145, 1677-1692.	8.9	145
2	Performance enhancement of a greenhouse dryer: Analysis of a cost-effective alternative solar air heater. Journal of Cleaner Production, 2020, 251, 119672.	9.3	123
3	Energy and exergy analysis of a photovoltaic thermal (PVT) system used in solar dryer: A numerical and experimental investigation. Renewable Energy, 2021, 180, 410-423.	8.9	99
4	Energy-exergy and enviro-economic survey of solar air heaters with various air channel modifications. Renewable Energy, 2020, 160, 67-85.	8.9	84
5	Thermal performance analysis of a quadruple-pass solar air collector assisted pilot-scale greenhouse dryer. Solar Energy, 2020, 203, 304-316.	6.1	82
6	Effect of turbulator modifications on the thermal performance of cost-effective alternative solar air heater. Renewable Energy, 2020, 158, 297-310.	8.9	77
7	Experimental and CFD survey of indirect solar dryer modified with low-cost iron mesh. Solar Energy, 2020, 197, 371-384.	6.1	76
8	Simulation and experimental analysis of heat transfer characteristics in the plate type heat exchangers using TiO₂/water nanofluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1343-1362.	2.8	75
9	Thermal performance enhancement of tube-type alternative indirect solar dryer with iron mesh modification. Solar Energy, 2020, 207, 1269-1281.	6.1	75
10	Drying municipal sewage sludge with v-groove triple-pass and quadruple-pass solar air heaters along with testing of a solar absorber drying chamber. Science of the Total Environment, 2020, 709, 136198.	8.0	71
11	Experimental and numerical study on enhancement of heat transfer characteristics of a heat pipe utilizing aqueous clinoptilolite nanofluid. Applied Thermal Engineering, 2019, 160, 114001.	6.0	70
12	Energy-exergy and sustainability analysis of a PV-driven quadruple-flow solar drying system. Renewable Energy, 2021, 175, 1151-1166.	8.9	68
13	Energy and exergy analysis of a vertical solar air heater with nano-enhanced absorber coating and perforated baffles. Renewable Energy, 2022, 187, 586-602.	8.9	60
14	Testing of a novel convex-type solar absorber drying chamber in dehumidification process of municipal sewage sludge. Journal of Cleaner Production, 2020, 272, 122862.	9.3	54
15	Thermal performance improvement of an indirect solar dryer with tube-type absorber packed with aluminum wool. Solar Energy, 2021, 217, 328-341.	6.1	52
16	Analysis of thermal performance of an improved shell and helically coiled heat exchanger. Applied Thermal Engineering, 2021, 184, 116272.	6.0	42
17	A comparative study on utilizing hybrid-type nanofluid in plate heat exchangers with different number of plates. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	39
18	Energetic, environmental and economic analysis of drying municipal sewage sludge with a modified sustainable solar drying system. Solar Energy, 2020, 208, 787-799.	6.1	38

#	Article	IF	Citations
19	Experimental and numerical analysis on using CuO-Al₂O₃/water hybrid nanofluid in a U-type tubular heat exchanger. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 519-540.	2.8	37
20	Experimental and numerical analysis of a compact indirect solar dehumidification system. Solar Energy, 2021, 226, 72-84.	6.1	35
21	Dehumidification of sewage sludge using quonset solar tunnel dryer: An experimental and numerical approach. Renewable Energy, 2021, 171, 784-798.	8.9	31
22	Upgrading the performance of a new shell and helically coiled heat exchanger by using longitudinal fins. Applied Thermal Engineering, 2021, 191, 116876.	6.0	28
23	Investigation of the influences of kaolin-deionized water nanofluid on the thermal behavior of concentric type heat exchanger. Heat and Mass Transfer, 2020, 56, 1453-1462.	2.1	27
24	Numerical and experimental analysis of parallel-pass forced convection solar air heating wall with different plenum and absorber configurations. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 978-1001.	2.8	22
25	Heat transfer enhancement of finned shell and tube heat exchanger using Fe2O3/water nanofluid. Journal of Central South University, 2021, 28, 3297-3309.	3.0	22
26	Numerical and experimental investigation of a solar absorber extension tube with turbulators for upgrading the performance of a solar dryer. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 3104-3131.	2.8	15
27	Experimental investigation of effect of refrigerant gases, compressor lubricant and operating conditions on performance of a heat pump. Journal of Central South University, 2021, 28, 3556-3568.	3.0	15
28	A detailed investigation of the temperature-controlled fluidized bed solar dryer: A numerical, experimental, and modeling study. Sustainable Energy Technologies and Assessments, 2022, 49, 101703.	2.7	13