Bourhan Tachtouch

List of Publications by Year
in descending order

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69 papers	1,834 citations	293460 24 h-index	312153 41 g-index
69 all docs	69 docs citations	69 times ranked	1530 citing authors

#	Article	IF	Citations
1	An integrated absorption cooling technology with thermoelectric generator powered by solar energy. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1547-1559.	2.0	5
2	Experimental study and performance testing of a novel parabolic trough collector. International Journal of Energy Research, 2022, 46, 1518-1537.	2.2	12
3	Direct and indirect utilization of thermal energy for cooling generation: A comparative analysis. Energy, 2022, 238, 122046.	4.5	8
4	Performance analysis of a novel combined parabolic trough collector with ejector cooling system and thermoelectric generators. Journal of Energy Storage, 2022, 47, 103584.	3.9	6
5	A novel hybrid solar water heater system integrated with thermoelectric generators: Experimental and numerical analysis. Journal of Cleaner Production, 2022, 368, 133119.	4.6	10
6	Thermoeconomic analysis of solar water heaters integrating phase change material modules and mounted in football pitches in Tunisia. Journal of Energy Storage, 2021, 33, 102129.	3.9	18
7	Exergy-based evaluation of a waste heat driven polygeneration system with CO<SUB align="right">2 as the working fluid. International Journal of Exergy, 2021, 34, 50.	0.2	0
8	An experimental evaluation of indirect direct evaporative cooling unit for hot climate. International Journal of Global Warming, 2021, 24, 237.	0.2	0
9	Exergy-based evaluation of a waste heat driven polygeneration system with CO<SUB align="right">2 as the working fluid. International Journal of Exergy, 2021, 34, 50.	0.2	2
10	An experimental evaluation of indirect direct evaporative cooling unit for hot climate. International Journal of Global Warming, 2021, 24, 237.	0.2	0
11	Comparative performance analysis of a solar assisted heat pump for greenhouse heating in Tunisia. International Journal of Refrigeration, 2021, 131, 547-558.	1.8	20
12	Exergoeconomic Analyses of a Cement Plant Waste Heat Recovery in a Novel Combined Power and Refrigeration Cycle. International Journal of Design and Nature and Ecodynamics, 2021, 16, 251-260.	0.3	0
13	Experimental and numerical evaluation of a new design of a solar thermosyphon water heating system with phase change material. Journal of Energy Storage, 2021, 41, 102948.	3.9	12
14	Energy and economic analysis of a variable-geometry ejector in solar cooling systems for residential buildings. Journal of Energy Storage, 2020, 27, 101061.	3.9	38
15	Parametric exergetic and energetic analysis of a novel modified organic rankine cycle with ejector. Thermal Science and Engineering Progress, 2020, 19, 100644.	1.3	7
16	A Comprehensive Energy and Exergoeconomic Analysis of a Novel Transcritical Refrigeration Cycle. Processes, 2020, 8, 758.	1.3	7
17	Energy and economic analysis of a 5â€¯MW photovoltaic system in northern Jordan. Case Studies in Thermal Engineering, 2020, 21, 100722.	2.8	35
18	A novel hybrid solar ejector cooling system with thermoelectric generators. Energy, 2020, 198, 117318.	4.5	28

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19	Exergy and Exergoeconomic Analysis of a Cogeneration Hybrid Solar Organic Rankine Cycle with Ejector. Entropy, 2020, 22, 702.	1.1	17
20	Operational mode optimization of indirect evaporative cooling in hot climates. Case Studies in Thermal Engineering, 2020, 18, 100574.	2.8	27
21	Experimental Analysis of Mist Injection and Water Shower Indirect Evaporative Cooling in Harsh Climate. International Journal of Heat and Technology, 2020, 38, 240-250.	0.3	0
22	Experimental Analysis of the Cooling Performance of A Fresh Air Handling Unit. AIMS Energy, 2020, 8, 299-319.	1.1	4
23	Comparative Thermodynamic Study of Refrigerants to Select the Best Environment-Friendly Refrigerant for Use in a Solar Ejector Cooling System. Arabian Journal for Science and Engineering, 2019, 44, 1165-1184.	1.7	34
24	Parametric study of a Novel Hybrid Solar Variable Geometry Ejector cooling with Organic Rankine Cycles. Energy Conversion and Management, 2019, 198, 111910.	4.4	37
25	Theoretical research of the performance of a novel enhanced transcritical CO2 refrigeration cycle for power and cold generation. Energy Conversion and Management, 2019, 201, 112139.	4.4	13
26	A combined thermal system of ejector refrigeration and Organic Rankine cycles for power generation using a solar parabolic trough. Energy Conversion and Management, 2019, 199, 111947.	4.4	50
27	A comprehensive review of ejector design, performance, and applications. Applied Energy, 2019, 240, 138-172.	5.1	230
28	Performance Assessment of a Hybrid Vapor Compression and Evaporative Cooling Fresh-Air-Handling Unit Operating in Hot Climates. Processes, 2019, 7, 872.	1.3	5
29	Exergetic and Economic Evaluation of a Transcritical Heat-Driven Compression Refrigeration System with CO2 as the Working Fluid under Hot Climatic Conditions. Entropy, 2019, 21, 1164.	1.1	10
30	Factorial analysis and experimental study of water-based cooling system effect on the performance of photovoltaic module. International Journal of Environmental Science and Technology, 2019, 16, 3645-3656.	1.8	26
31	Techno-Economic Feasibility Study of a Hypersaline Pressure-Retarded Osmosis Power Plants: Dead Seaâ€“Red Sea Conveyor. Energies, 2018, 11, 3118.	1.6	13
32	Thermodynamic analysis of a novel Ejector Enhanced Vapor Compression Refrigeration (EEVCR) cycle. Energy, 2018, 163, 1217-1230.	4.5	38
33	Performance analysis of a new ejector expansion refrigeration cycle (NEERC) for power and cold: Exergy and energy points of view. Applied Thermal Engineering, 2017, 122, 39-48.	3.0	30
34	A hybrid concentrated solar thermal collector/thermo-electric generation system. Energy, 2017, 134, 1001-1012.	4.5	43
35	Performance analysis of a combined vapor compression cycle and ejector cycle for refrigeration cogeneration. International Journal of Refrigeration, 2017, 74, 517-527.	1.8	42
36	Investigation of the use of nano-refrigerants to enhance the performance of an ejector refrigeration system. Applied Energy, 2017, 206, 1446-1463.	5.1	49

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37	Simulations of Magnetohemodynamics in Stenosed Arteries in Diabetic or Anemic Models. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-13.	0.7	9
38	Thermodynamic analysis of a novel ejector-cascade refrigeration cycles for freezing process applications and air-conditioning. International Journal of Refrigeration, 2016, 70, 108-118.	1.8	32
39	Hourly dynamic simulation of solar ejector cooling system using TRNSYS for Jordanian climate. Energy Conversion and Management, 2015, 100, 288-299.	4.4	80
40	Performance study of ejector cooling cycle at critical mode under superheated primary flow. Energy Conversion and Management, 2015, 94, 300-310.	4.4	75
41	Modeling and simulation of thermoelectric device working as a heat pump and an electric generator under Mediterranean climate. Energy, 2015, 90, 1239-1250.	4.5	64
42	Computational Modeling of Non-Newtonian Blood Flow Through Stenosed Arteries in the Presence of Magnetic Field. Journal of Biomechanical Engineering, 2013, 135, 114503.	0.6	19
43	Experimental Study of a Solar Adsorption Refrigeration Unit, Factorial Analysis. Smart Grid and Renewable Energy, 2012, 03, 126-132.	0.7	2
44	Entropy Generation Rate in Forced Convection Flow About Inclined Surfaces in a Porous Medium. , 2011, , .		1
45	TRANSIENT MIXED CONVECTION ALONG A VERTICAL PLATE EMBEDDED IN POROUS MEDIA WITH INTERNAL HEAT GENERATION AND OSCILLATING TEMPERATURE. Chemical Engineering Communications, 2007, 194, 1516-1530.	1.5	11
46	Magnetic field effect on heat transfer and fluid flow characteristics of blood flow in multi-stenosis arteries. Heat and Mass Transfer, 2007, 44, 297-304.	1.2	54
47	Transient Non-Boussinesq Magnetohydrodynamic Free Convection Flows Over a Vertical Surface. International Journal of Fluid Mechanics Research, 2006, 33, 137-152.	0.4	4
48	Magnetic and buoyancy effects on melting from a vertical plate embedded in saturated porous media. Energy Conversion and Management, 2005, 46, 2566-2577.	4.4	26
49	Dynamic model of an HVAC system for control analysis. Energy, 2005, 30, 1729-1745.	4.5	189
50	Transient mixed convection with internal heat generation and oscillating plate temperature. Acta Mechanica, 2005, 174, 185-199.	1.1	6
51	Magnetic field effect on heat and fluid flow over a wavy surface with a variable heat flux. Journal of Magnetism and Magnetic Materials, 2004, 268, 357-363.	1.0	35
52	On heat transfer effects of a viscous fluid squeezed and extruded between two parallel plates. Heat and Mass Transfer, 2004, 41, 112.	1.2	23
53	Title is missing!. Transport in Porous Media, 2003, 53, 371-372.	1.2	1
54	Experimental study of new refrigerant mixtures to replace R12 in domestic refrigerators. Applied Thermal Engineering, 2002, 22, 495-506.	3.0	60

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55	Heat transfers and radial flows via a viscous fluid squeezed between two parallel disks. Applied Energy, 2001, 68, 275-288.	5.1	19
56	Thermodynamic behaviour of an air-conditioning system employing combined evaporative-water and air coolers. Applied Energy, 2001, 70, 305-319.	5.1	22
57	Heat and fluid flow from a wavy surface subjected to a variable heat flux. Acta Mechanica, 2001, 152, 1-8.	1.1	11
58	On thermal boundary layer of a non-Newtonian fluid on a power-law stretched surface of variable temperature with suction or injection. Heat and Mass Transfer, 2001, 37, 459-465.	1.2	6
59	Heat transfer analysis of a nonâ€Newtonian fluid on a powerâ€law stretched surface with suction or injection for uniform and cooled surface temperature. International Journal of Numerical Methods for Heat and Fluid Flow, 2000, 10, 385-396.	1.6	5
60	Title is missing!. Transport in Porous Media, 2000, 41, 197-209.	1.2	15
61	Heat-and-mass transfer analysis from vegetable and fruit products stored in cold conditions. Heat and Mass Transfer, 2000, 36, 217-221.	1.2	8
62	Natural losses from vegetable and fruit products in cold storage. Food Control, 2000, 11, 465-470.	2.8	19
63	MANUFACTURING PARAMETERS AND QUALITY CHARACTERISTICS OF SPRAY DRIED JAMEED. Drying Technology, 2000, 18, 967-984.	1.7	49
64	Manufacture of jameed using a spray drying process: a preliminary study. International Journal of Dairy Technology, 1999, 52, 77-80.	1.3	10
65	Effects of absorptance of external surfaces on heating and cooling loads of residential buildings in Jordan. Energy Conversion and Management, 1998, 39, 273-284.	4.4	52
66	No slip boundary effects in non-Darcian mixed convection from a vertical wall in saturated porous media. Analytical solution. Heat and Mass Transfer, 1998, 34, 35-39.	1.2	8
67	Cooling and heating loads in residential buildings in Jordan. Energy and Buildings, 1997, 26, 137-143.	3.1	32
68	An approximate analytical solution for the prediction of transient response of the trombe wall. International Communications in Heat and Mass Transfer, 1993, 20, 567-577.	2.9	8
69	An approximate analytical solution to convective laminar heat transfer flow within the trombe wall channel. International Communications in Heat and Mass Transfer, 1991, 18, 153-159.	2.9	3