H Basirat Tabrizi

List of Publications by Year
in descending order

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89 papers	1,579 citations	304743 22 h-index	345221 36 g-index
89 all docs	89 docs citations	89 times ranked	1301 citing authors

#	Article	IF	Citations
1	Experimental study on thermal behavior of new mixed medium phase change material for improving productivity on salt gradient solar pond. Journal of Thermal Analysis and Calorimetry, 2022, 147, 971-985.	3.6	8
2	Experimental study of solar desalination performance due to water depths, flow rates and using heat recovery from disposed brine. International Journal of Ambient Energy, 2022, 43, 6052-6061.	2.5	1
3	Effect of Steps Height and Glass Cover Angle on Heat Transfer Performance for Solar Distillation: Numerical Study. International Journal of Engineering, Transactions A: Basics, 2022, 35, .	0.4	0
4	Numerical Study of Water-air Ejector using Mixture and Two-phase Models. International Journal of Engineering Transactions B: Applications, 2022, 35, 307-318.	0.5	2
5	Thermal-salinity performance and stability analysis of the pilot salt-gradient solar ponds with phase change material. Sustainable Energy Technologies and Assessments, 2022, 53, 102396.	2.7	5
6	Experimental Performance of Desalination System Using Solar Concentrator, Nano-fluid, and Preheater Tube Accompanying Phase Change Material. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2021, 45, 1033-1044.	1.3	9
7	Evaluation of the thermal properties of SrCO3-microencapsulated palmitic acid composites as thermal energy storage materials. Journal of Thermal Analysis and Calorimetry, 2020, 140, 2123-2130.	3.6	6
8	Passive and active performance of a multi-side-stepped square pyramid solar still; experimental and modeling. Journal of Energy Storage, 2020, 32, 101832.	8.1	13
9	Simulation of different shapes and arrangements of holes over the leading edge of airfoil by blowing to prevent ice accretion. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	1
10	Experimental study of air injection effect on to the surface for preventing ice formation. Scientia Iranica, 2020, .	0.4	0
11	Transient modeling for the prediction of the temperature distribution with phase change material in a salt-gradient solar pond and comparison with experimental data. Journal of Energy Storage, 2019, 26, 101011.	8.1	20
12	Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO 3 Shell as Thermal Energy Storage Materials. ChemistrySelect, 2019, 4, 6501-6505.	1.5	8
13	A review on pulsed flow in gas-solid fluidized beds and spouted beds: Recent work and future outlook. Advanced Powder Technology, 2019, 30, 1121-1130.	4.1	29
14	Experimental Investigation of Sinusoidal Tube in Triplex-Tube Heat Exchanger during Charging and Discharging Processes Using Phase Change Materials. International Journal of Engineering, Transactions A: Basics, 2019, 32, .	0.4	3
15	Performance of Rotating Solar Still with Rotating External Reflectors. International Journal of Engineering, Transactions B: Applications, 2019, 32, .	0.7	1
16	Numerical and experimental study of inlet-outlet locations effect in horizontal storage tank of solar water heater. Sustainable Energy Technologies and Assessments, 2018, 25, 181-190.	2.7	35
17	Influences of the fluidizing and spouting pulsation on particle motion in spout-fluid beds. Particuology, 2018, 36, 139-148.	3.6	13
18	Experimental study on destruction of thermal stratification tank in solar collector performance. Journal of Energy Storage, 2018, 15, 124-132.	8.1	19

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19	Preparation of SrTiO3-microencapsulated palmitic acid by means of a solâ€“gel approach as thermal energy storage materials. Journal of Materials Science: Materials in Electronics, 2018, 29, 794-800.	2.2	7
20	Numerical and experimental study of oscillatory behavior of liquid surface agitated by high-speed gas jet. Applied Mathematical Modelling, 2018, 62, 510-525.	4.2	10
21	Investigating effect of pulsed flow on hydrodynamics of gas-solid fluidized bed using two-fluid model simulation and experiment. Powder Technology, 2017, 311, 328-340.	4.2	24
22	Fabrication and characterization of microencapsulated PA with SiO2 shell through solâ€“gel synthesis via sodium silicate precursor. Journal of Materials Science: Materials in Electronics, 2017, 28, 9990-9997.	2.2	16
23	Experiment and optimization of mixed medium effect on small-scale salt gradient solar pond. Solar Energy, 2017, 151, 102-109.	6.1	22
24	Nanoparticle deposition in transient gaseous microchannel flow considering hindered motion and rarefaction effect. Korean Journal of Chemical Engineering, 2017, 34, 1319-1327.	2.7	6
25	Numerical study of non-Fourier heat conduction in a biolayer spherical living tissue during hyperthermia. Journal of Thermal Biology, 2016, 62, 181-188.	2.5	22
26	Thermal optimization of friction stir welding with simultaneous cooling using inverse approach. Applied Thermal Engineering, 2016, 108, 751-763.	6.0	12
27	Experimental and numerical study of simultaneous cooling with CO2 gas during friction stir welding of Al-5052. Journal of Materials Processing Technology, 2016, 237, 243-253.	6.3	18
28	Normalized Knock Intensity Determination Based on the Knock Sensor Analysis to Have a Fixed Detection Threshold at Different Operating Conditions. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	4
29	Comparison of DEM simulation and experiments in a dual-column slot-rectangular spouted bed with a suspended partition. Chemical Engineering Journal, 2016, 290, 63-73.	12.7	21
30	Hydrodynamics of pulsed spouted beds: Effects of pulsation waveform, amplitude, and frequency. Drying Technology, 2016, 34, 1546-1557.	3.1	11
31	Hydrodynamic and Mixing Characteristics of Gasâ€“Solid Flow in a Pulsed Spouted Bed. Industrial & Engineering Chemistry Research, 2015, 54, 7933-7941.	3.7	30
32	Hydrodynamic investigation of gas-solid flow in rectangular spout-fluid bed using CFD-DEM modeling. Powder Technology, 2015, 284, 355-364.	4.2	61
33	Experimental studies on the effect of using phase change material in salinity-gradient solar pond. Solar Energy, 2015, 122, 204-214.	6.1	39
34	Experimental investigation of heat absorption of different solar pond shapes covered with glazing plastic. Solar Energy, 2015, 122, 569-578.	6.1	38
35	Exergy modeling and performance evaluation of pulp and paper production process of bagasse, a case study. Thermal Science, 2014, 18, 1399-1412.	1.1	6
36	Humidity Effect on the Separation Efficiency of Cylindrical Cyclone Separator. , 2014, , .		1

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37	Geometry Effect on Deposition and Residence Time of Polydisperse Fine Drops in Mini-Risers Under Developing Flow Condition. Particulate Science and Technology, 2014, 32, 560-575.	2.1	3
38	Experimental and numerical study of mini-riser geometry effect on drops residence time in the developing flow. Experimental Thermal and Fluid Science, 2014, 55, 115-127.	2.7	1
39	Size-dependent generalized thermoelasticity model for Timoshenko microbeams. Acta Mechanica, 2014, 225, 1823-1842.	2.1	67
40	Turbulence effects on the granular model of particle motion in a boundary layer flow. Canadian Journal of Chemical Engineering, 2014, 92, 189-195.	1.7	11
41	Optimization of Functionally Graded Materials in the Slab Symmetrically Surface Heated Using Transient Analytical Solution. Journal of Thermal Stresses, 2014, 37, 137-159.	2.0	15
42	Effects of geometric parameters and electric indexes on performance of a vertical wet electrostatic precipitator. Journal of Electrostatics, 2014, 72, 402-411.	1.9	16
43	An Energy and Exergy Analysis of Water and Air with Different Passage in a Solar Collector. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2014, 36, 747-754.	2.3	12
44	Pulsating flow effect on the segregation of binary particles in a gasâ€“solid fluidized bed. Powder Technology, 2014, 264, 570-576.	4.2	46
45	Applying a non-equilibrium wall function in k â€“ Îµ turbulent modelling of hydrodynamic circulating flow. Applied Mathematical Modelling, 2014, 38, 588-598.	4.2	8
46	Experimental investigation of the concomitant injection of gasoline and CNG in a turbocharged spark ignition engine. Energy Conversion and Management, 2014, 80, 126-136.	9.2	40
47	Effect of correcting near-wall forces on nanoparticle transport in a microchannel. Particuology, 2014, 16, 84-90.	3.6	10
48	Comparative analysis of the boundary transfer method with other near-wall treatments based on the â€“ turbulence model. European Journal of Mechanics, B/Fluids, 2014, 44, 22-31.	2.5	11
49	The Effect of Non-Continuous Inlet Air on Increasing the Segregation of Binary Particles in a Fluidized Bed. , 2014, , .		0
50	Experimental study on hydrodynamic characteristics of gasâ€“solid pulsed fluidized bed. Powder Technology, 2013, 237, 14-23.	4.2	77
51	Numerical Simulation of Non-Fourier Temperature Behavior of Functionally Graded Materials in a Slab with Surface Radiation. Numerical Heat Transfer; Part A: Applications, 2013, 63, 226-243.	2.1	1
52	Energy and exergy analysis of fluidized bed dryer based on two-fluid modeling. International Journal of Thermal Sciences, 2013, 64, 213-219.	4.9	32
53	Greenhouse gas emission measurement and economic analysis of Iran natural gas fired power plants. Energy Policy, 2013, 60, 200-207.	8.8	13
54	Development of boundary transfer method in simulation of gasâ€“solid turbulent flow of a riser. Applied Mathematical Modelling, 2013, 37, 2445-2459.	4.2	51

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55	Investigation of fine droplet generation from hot engine oil by impinging gas jets onto liquid surface. Journal of Aerosol Science, 2013, 65, 49-57.	3.8	10
56	Phase change material solidification in a finned cylindrical shell thermal energy storage: An approximate analytical approach. Thermal Science, 2013, 17, 407-418.	1.1	15
57	Study of Swarm Behavior in Modeling and Simulation of Cluster Formation in Nanofluids. Modelling and Simulation in Engineering, 2013, 2013, 1-6.	0.7	1
58	Turbulent Boundary Layer Gasâ€“Solid Flow Based on Two-Fluid Model. Lecture Notes in Electrical Engineering, 2013, , 147-158.	0.4	0
59	Non-Similarity Thermal Boundary Layer Flow over a Stretching Flat Plate. Chinese Physics Letters, 2012, 29, 104703.	3.3	9
60	Analytical modeling of PCM solidification in a shell and tube finned thermal storage for air conditioning systems. Energy and Buildings, 2012, 49, 356-361.	6.7	147
61	Greenâ€™s function solution for transient heat conduction in annular fin during solidification of phase change material. Applied Mathematics and Mechanics (English Edition), 2012, 33, 1265-1274.	3.6	2
62	Correlation for frost properties on a cold cylinder surface in cross flow. Heat and Mass Transfer, 2012, 48, 1477-1484.	2.1	7
63	Experimental study on the effect of connecting ducts on demisting cyclone efficiency. Experimental Thermal and Fluid Science, 2012, 39, 26-36.	2.7	17
64	Approximate analytical model for PCM solidification in a rectangular finned container with convective cooling boundaries. International Communications in Heat and Mass Transfer, 2012, 39, 318-324.	5.6	36
65	On near-wall behavior of particles in a dilute turbulent gasâ€“solid flow using kinetic theory of granular flows. Powder Technology, 2012, 224, 273-280.	4.2	22
66	Experimental investigation of frost formation on a horizontal cold cylinder under cross flow. International Journal of Refrigeration, 2011, 34, 1174-1180.	3.4	7
67	Performance evaluation of a natural-convection solar air-heater with a rectangular-finned absorber plate. Energy Conversion and Management, 2011, 52, 1215-1225.	9.2	78
68	Experimental and theoretical investigation of dual purpose solar collector. Solar Energy, 2011, 85, 601-608.	6.1	30
69	Comparison of Standard Turbulent Wall Function with a Non-Equilibrium Wall Model. International Journal of Fluid Mechanics Research, 2011, 38, 499-508.	0.4	6
70	ANALYTICAL SOLUTION FOR THERMAL STRESSES OF LAMINATED HOLLOW CYLINDERS UNDER TRANSIENT NONUNIFORM THERMAL LOADING. Mechanika, 2011, 17, .	0.5	4
71	Analytical-Numerical Study of Coupled Hyperbolic Heat and Moisture Diffusion in Porous Bodies. , 2010, , .		0
72	Thermal stochastic collision model in turbulent gasâ€“solid pipe flows. International Journal of Heat and Mass Transfer, 2010, 53, 1175-1182.	4.8	3

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73	Optimal operation of alloy material in solidification processes with inverse heat transfer. International Communications in Heat and Mass Transfer, 2010, 37, 711-716.	5.6	10
74	Non-Fourier effect in the presence of coupled heat and moisture transfer. International Journal of Heat and Mass Transfer, 2010, 53, 3080-3087.	4.8	18
75	Numerical and experimental investigation of variable phase transformation number effect in porous media during freezing process. Heat and Mass Transfer, 2009, 45, 407-416.	2.1	8
76	A method to measure time lag constants of heat conduction equations. International Communications in Heat and Mass Transfer, 2009, 36, 186-191.	5.6	11
77	Two-Fluid Model Simulation of Thermophoretic Deposition for Fine Particles in a Turbulent Boundary Layer. , 2007, , .		1
78	Mathematical modelling of drying based on a surface evaporation source term for coupled energy and mass transfer. International Journal of Energy Research, 2007, 31, 1455-1464.	4.5	5
79	Numerical simulation of fluid bed drying based on two-fluid model and experimental validation. Applied Thermal Engineering, 2007, 27, 422-429.	6.0	35
80	Gasâ€“solid turbulent flow and heat transfer with collision effect in a vertical pipe. International Journal of Thermal Sciences, 2007, 46, 67-75.	4.9	6
81	Inter-particle heat transfer in a riser of gasâ€“solid turbulent flows. Powder Technology, 2005, 159, 35-45.	4.2	31
82	Effect of Particulate Diffusion on the Free Turbulent Flow Based on Two-Fluid. , 2005, , .		0
83	Experimental study of turbulent gasâ€“solid heat transfer at different particles temperature. Experimental Thermal and Fluid Science, 2004, 28, 655-665.	2.7	15
84	Two-dimensional mathematical model of a packed bed dryer and experimentation. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2002, 216, 161-168.	1.4	20
85	Thermo-mechanical modeling of turbulent heat transfer in gasâ€“solid flows including particle collisions. International Journal of Heat and Fluid Flow, 2002, 23, 792-806.	2.4	36
86	Modeling of heat transfer in turbulent gasâ€“solid flow. International Journal of Heat and Mass Transfer, 2002, 45, 1173-1184.	4.8	50
87	Modeling of Thermal Two Dimensional Free Turbulent Jet by a Three Layer Two Time Scale Cellular Neural Network. Lecture Notes in Computer Science, 1999, , 317-323.	1.3	1
88	A High Order Time Advancement Scheme for Prediction of Solidification Processes. Defect and Diffusion Forum, 0, 297-301, 779-784.	0.4	1
89	Experimental study of convective heat transfer coefficient for pulsed fluidized bed using microcapsule phase change material. Heat Transfer, 0, , .	3.0	2