

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
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89
all docs

89
docs citations

89
times ranked

1301
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical modeling of PCM solidification in a shell and tube finned thermal storage for air conditioning systems. <i>Energy and Buildings</i> , 2012, 49, 356-361.	6.7	147
2	Performance evaluation of a natural-convection solar air-heater with a rectangular-finned absorber plate. <i>Energy Conversion and Management</i> , 2011, 52, 1215-1225.	9.2	78
3	Experimental study on hydrodynamic characteristics of gas-solid pulsed fluidized bed. <i>Powder Technology</i> , 2013, 237, 14-23.	4.2	77
4	Size-dependent generalized thermoelasticity model for Timoshenko microbeams. <i>Acta Mechanica</i> , 2014, 225, 1823-1842.	2.1	67
5	Hydrodynamic investigation of gas-solid flow in rectangular spout-fluid bed using CFD-DEM modeling. <i>Powder Technology</i> , 2015, 284, 355-364.	4.2	61
6	Development of boundary transfer method in simulation of gas-solid turbulent flow of a riser. <i>Applied Mathematical Modelling</i> , 2013, 37, 2445-2459.	4.2	51
7	Modeling of heat transfer in turbulent gas-solid flow. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 1173-1184.	4.8	50
8	Pulsating flow effect on the segregation of binary particles in a gas-solid fluidized bed. <i>Powder Technology</i> , 2014, 264, 570-576.	4.2	46
9	Experimental investigation of the concomitant injection of gasoline and CNG in a turbocharged spark ignition engine. <i>Energy Conversion and Management</i> , 2014, 80, 126-136.	9.2	40
10	Experimental studies on the effect of using phase change material in salinity-gradient solar pond. <i>Solar Energy</i> , 2015, 122, 204-214.	6.1	39
11	Experimental investigation of heat absorption of different solar pond shapes covered with glazing plastic. <i>Solar Energy</i> , 2015, 122, 569-578.	6.1	38
12	Thermo-mechanical modeling of turbulent heat transfer in gas-solid flows including particle collisions. <i>International Journal of Heat and Fluid Flow</i> , 2002, 23, 792-806.	2.4	36
13	Approximate analytical model for PCM solidification in a rectangular finned container with convective cooling boundaries. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 318-324.	5.6	36
14	Numerical simulation of fluid bed drying based on two-fluid model and experimental validation. <i>Applied Thermal Engineering</i> , 2007, 27, 422-429.	6.0	35
15	Numerical and experimental study of inlet-outlet locations effect in horizontal storage tank of solar water heater. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 25, 181-190.	2.7	35
16	Energy and exergy analysis of fluidized bed dryer based on two-fluid modeling. <i>International Journal of Thermal Sciences</i> , 2013, 64, 213-219.	4.9	32
17	Inter-particle heat transfer in a riser of gas-solid turbulent flows. <i>Powder Technology</i> , 2005, 159, 35-45.	4.2	31
18	Experimental and theoretical investigation of dual purpose solar collector. <i>Solar Energy</i> , 2011, 85, 601-608.	6.1	30

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19	Hydrodynamic and Mixing Characteristics of Gas-Solid Flow in a Pulsed Spouted Bed. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7933-7941.	3.7	30
20	A review on pulsed flow in gas-solid fluidized beds and spouted beds: Recent work and future outlook. <i>Advanced Powder Technology</i> , 2019, 30, 1121-1130.	4.1	29
21	Investigating effect of pulsed flow on hydrodynamics of gas-solid fluidized bed using two-fluid model simulation and experiment. <i>Powder Technology</i> , 2017, 311, 328-340.	4.2	24
22	On near-wall behavior of particles in a dilute turbulent gas-solid flow using kinetic theory of granular flows. <i>Powder Technology</i> , 2012, 224, 273-280.	4.2	22
23	Numerical study of non-Fourier heat conduction in a biolayer spherical living tissue during hyperthermia. <i>Journal of Thermal Biology</i> , 2016, 62, 181-188.	2.5	22
24	Experiment and optimization of mixed medium effect on small-scale salt gradient solar pond. <i>Solar Energy</i> , 2017, 151, 102-109.	6.1	22
25	Comparison of DEM simulation and experiments in a dual-column slot-rectangular spouted bed with a suspended partition. <i>Chemical Engineering Journal</i> , 2016, 290, 63-73.	12.7	21
26	Two-dimensional mathematical model of a packed bed dryer and experimentation. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2002, 216, 161-168.	1.4	20
27	Transient modeling for the prediction of the temperature distribution with phase change material in a salt-gradient solar pond and comparison with experimental data. <i>Journal of Energy Storage</i> , 2019, 26, 101011.	8.1	20
28	Experimental study on destruction of thermal stratification tank in solar collector performance. <i>Journal of Energy Storage</i> , 2018, 15, 124-132.	8.1	19
29	Non-Fourier effect in the presence of coupled heat and moisture transfer. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3080-3087.	4.8	18
30	Experimental and numerical study of simultaneous cooling with CO ₂ gas during friction stir welding of Al-5052. <i>Journal of Materials Processing Technology</i> , 2016, 237, 243-253.	6.3	18
31	Experimental study on the effect of connecting ducts on demisting cyclone efficiency. <i>Experimental Thermal and Fluid Science</i> , 2012, 39, 26-36.	2.7	17
32	Effects of geometric parameters and electric indexes on performance of a vertical wet electrostatic precipitator. <i>Journal of Electrostatics</i> , 2014, 72, 402-411.	1.9	16
33	Fabrication and characterization of microencapsulated PA with SiO ₂ shell through sol-gel synthesis via sodium silicate precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9990-9997.	2.2	16
34	Experimental study of turbulent gas-solid heat transfer at different particles temperature. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 655-665.	2.7	15
35	Phase change material solidification in a finned cylindrical shell thermal energy storage: An approximate analytical approach. <i>Thermal Science</i> , 2013, 17, 407-418.	1.1	15
36	Optimization of Functionally Graded Materials in the Slab Symmetrically Surface Heated Using Transient Analytical Solution. <i>Journal of Thermal Stresses</i> , 2014, 37, 137-159.	2.0	15

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37	Greenhouse gas emission measurement and economic analysis of Iran natural gas fired power plants. <i>Energy Policy</i> , 2013, 60, 200-207.	8.8	13
38	Influences of the fluidizing and spouting pulsation on particle motion in spout-fluid beds. <i>Particuology</i> , 2018, 36, 139-148.	3.6	13
39	Passive and active performance of a multi-side-stepped square pyramid solar still; experimental and modeling. <i>Journal of Energy Storage</i> , 2020, 32, 101832.	8.1	13
40	An Energy and Exergy Analysis of Water and Air with Different Passage in a Solar Collector. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 747-754.	2.3	12
41	Thermal optimization of friction stir welding with simultaneous cooling using inverse approach. <i>Applied Thermal Engineering</i> , 2016, 108, 751-763.	6.0	12
42	A method to measure time lag constants of heat conduction equations. <i>International Communications in Heat and Mass Transfer</i> , 2009, 36, 186-191.	5.6	11
43	Turbulence effects on the granular model of particle motion in a boundary layer flow. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 189-195.	1.7	11
44	Comparative analysis of the boundary transfer method with other near-wall treatments based on the $k-\epsilon$ turbulence model. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 44, 22-31.	2.5	11
45	Hydrodynamics of pulsed spouted beds: Effects of pulsation waveform, amplitude, and frequency. <i>Drying Technology</i> , 2016, 34, 1546-1557.	3.1	11
46	Optimal operation of alloy material in solidification processes with inverse heat transfer. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 711-716.	5.6	10
47	Investigation of fine droplet generation from hot engine oil by impinging gas jets onto liquid surface. <i>Journal of Aerosol Science</i> , 2013, 65, 49-57.	3.8	10
48	Effect of correcting near-wall forces on nanoparticle transport in a microchannel. <i>Particuology</i> , 2014, 16, 84-90.	3.6	10
49	Numerical and experimental study of oscillatory behavior of liquid surface agitated by high-speed gas jet. <i>Applied Mathematical Modelling</i> , 2018, 62, 510-525.	4.2	10
50	Non-Similarity Thermal Boundary Layer Flow over a Stretching Flat Plate. <i>Chinese Physics Letters</i> , 2012, 29, 104703.	3.3	9
51	Experimental Performance of Desalination System Using Solar Concentrator, Nano-fluid, and Preheater Tube Accompanying Phase Change Material. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2021, 45, 1033-1044.	1.3	9
52	Numerical and experimental investigation of variable phase transformation number effect in porous media during freezing process. <i>Heat and Mass Transfer</i> , 2009, 45, 407-416.	2.1	8
53	Applying a non-equilibrium wall function in $k-\epsilon$ turbulent modelling of hydrodynamic circulating flow. <i>Applied Mathematical Modelling</i> , 2014, 38, 588-598.	4.2	8
54	Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO ₃ Shell as Thermal Energy Storage Materials. <i>ChemistrySelect</i> , 2019, 4, 6501-6505.	1.5	8

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55	Experimental study on thermal behavior of new mixed medium phase change material for improving productivity on salt gradient solar pond. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 971-985.	3.6	8
56	Experimental investigation of frost formation on a horizontal cold cylinder under cross flow. <i>International Journal of Refrigeration</i> , 2011, 34, 1174-1180.	3.4	7
57	Correlation for frost properties on a cold cylinder surface in cross flow. <i>Heat and Mass Transfer</i> , 2012, 48, 1477-1484.	2.1	7
58	Preparation of SrTiO ₃ -microencapsulated palmitic acid by means of a sol-gel approach as thermal energy storage materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 794-800.	2.2	7
59	Gas-solid turbulent flow and heat transfer with collision effect in a vertical pipe. <i>International Journal of Thermal Sciences</i> , 2007, 46, 67-75.	4.9	6
60	Exergy modeling and performance evaluation of pulp and paper production process of bagasse, a case study. <i>Thermal Science</i> , 2014, 18, 1399-1412.	1.1	6
61	Nanoparticle deposition in transient gaseous microchannel flow considering hindered motion and rarefaction effect. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1319-1327.	2.7	6
62	Evaluation of the thermal properties of SrCO ₃ -microencapsulated palmitic acid composites as thermal energy storage materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2123-2130.	3.6	6
63	Comparison of Standard Turbulent Wall Function with a Non-Equilibrium Wall Model. <i>International Journal of Fluid Mechanics Research</i> , 2011, 38, 499-508.	0.4	6
64	Mathematical modelling of drying based on a surface evaporation source term for coupled energy and mass transfer. <i>International Journal of Energy Research</i> , 2007, 31, 1455-1464.	4.5	5
65	Thermal-salinity performance and stability analysis of the pilot salt-gradient solar ponds with phase change material. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102396.	2.7	5
66	Normalized Knock Intensity Determination Based on the Knock Sensor Analysis to Have a Fixed Detection Threshold at Different Operating Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	1.1	4
67	ANALYTICAL SOLUTION FOR THERMAL STRESSES OF LAMINATED HOLLOW CYLINDERS UNDER TRANSIENT NONUNIFORM THERMAL LOADING. <i>Mechanika</i> , 2011, 17, .	0.5	4
68	Thermal stochastic collision model in turbulent gas-solid pipe flows. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 1175-1182.	4.8	3
69	Geometry Effect on Deposition and Residence Time of Polydisperse Fine Drops in Mini-Risers Under Developing Flow Condition. <i>Particulate Science and Technology</i> , 2014, 32, 560-575.	2.1	3
70	Experimental Investigation of Sinusoidal Tube in Triplex-Tube Heat Exchanger during Charging and Discharging Processes Using Phase Change Materials. <i>International Journal of Engineering, Transactions A: Basics</i> , 2019, 32, .	0.4	3
71	Green's function solution for transient heat conduction in annular fin during solidification of phase change material. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012, 33, 1265-1274.	3.6	2
72	Numerical Study of Water-air Ejector using Mixture and Two-phase Models. <i>International Journal of Engineering Transactions B: Applications</i> , 2022, 35, 307-318.	0.5	2

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73	Experimental study of convective heat transfer coefficient for pulsed fluidized bed using microcapsule phase change material. Heat Transfer, 0, , .	3.0	2
74	Two-Fluid Model Simulation of Thermophoretic Deposition for Fine Particles in a Turbulent Boundary Layer. , 2007, , .		1
75	A High Order Time Advancement Scheme for Prediction of Solidification Processes. Defect and Diffusion Forum, 0, 297-301, 779-784.	0.4	1
76	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
77	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
78	Humidity Effect on the Separation Efficiency of Cylindrical Cyclone Separator. , 2014, , .		1
79	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
80	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
81	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
82	Performance of Rotating Solar Still with Rotating External Reflectors. International Journal of Engineering, Transactions B: Applications, 2019, 32, .	0.7	1
83	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
84	Analytical-Numerical Study of Coupled Hyperbolic Heat and Moisture Diffusion in Porous Bodies. , 2010, , .		0
85	The Effect of Non-Continuous Inlet Air on Increasing the Segregation of Binary Particles in a Fluidized Bed. , 2014, , .		0
86	Effect of Particulate Diffusion on the Free Turbulent Flow Based on Two-Fluid. , 2005, , .		0
87	Turbulent Boundary Layer Gas-Solid Flow Based on Two-Fluid Model. Lecture Notes in Electrical Engineering, 2013, , 147-158.	0.4	0
88	Experimental study of air injection effect on to the surface for preventing ice formation. Scientia Iranica, 2020, .	0.4	0
89	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