Pooria Akbarzadeh

List of Publications by Year
in descending order

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43	402	932766	887659
papers	citations	10 h-index	17 g-index

47	47	47	282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cavitation reduction in the globe valve using oblique perforated cages: A numerical investigation. Flow Measurement and Instrumentation, 2022, 83, 102110.	1.0	11
2	A new insight into a thermoplastic microfluidic device aimed at improvement of oxygenation process and avoidance of shear stress during cell culture. Biomedical Microdevices, 2022, 24, 15.	1.4	2
3	Experimental study on the entry of solid spheres into Newtonian and non-Newtonian fluids. Physics of Fluids, 2022, 34, .	1.6	8
4	Experimental investigation of water entry of dimpled spheres. Ocean Engineering, 2022, 250, 110992.	1.9	8
5	An investigation on nonlinear viscoelastic lubrication using FENE-P constitutive equation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	1
6	Accelerate the convergence of turbulent flows simulation: A novel progressive locally power-law preconditioning method. Computers and Fluids, 2022, 241, 105483.	1.3	1
7	Experimental analysis of water entry problem considering hollow cylinders: The impact of hole geometry. Ocean Engineering, 2022, 259, 111906.	1.9	4
8	SADI approach programming on GPU: convective heat transfer of nanofluids flow inside a wavy channel. Journal of Thermal Analysis and Calorimetry, 2021, 146, 31-46.	2.0	1
9	Analysis of nonlinear viscoelastic lubrication using Giesekus constitutive equation. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 1124-1138.	1.0	8
10	Water entry of grooved spheres: Effect of the number of grooves and impact velocity. Journal of Fluids and Structures, 2021, 100, 103198.	1.5	10
11	Numerical study of the cavitation effect on plain bearings in constant and variable viscosity states. Meccanica, 2021, 56, 2507-2516.	1.2	1
12	Numerical study and parameter optimization of partial journal bearing using MOPSO algorithm. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 145-158.	1.0	3
13	Numerical investigation of unsteady pulsatile Newtonian/non-Newtonian blood flow through curved stenosed arteries. Bio-Medical Materials and Engineering, 2020, 30, 525-540.	0.4	4
14	The effect of floating balls density on evaporation suppression of water reservoirs in the presence of surface flows. Journal of Hydrology, 2020, 591, 125323.	2.3	13
15	Hydrodynamic characteristics of heated/non-heated and grooved/un-grooved spheres during free-surface water entry. Journal of Fluids and Structures, 2020, 97, 103100.	1.5	10
16	Advances in numerical approaches for microfluidic cell analysis platforms. Journal of Science: Advanced Materials and Devices, 2020, 5, 295-307.	1.5	11
17	Parallel Thomas approach development for solving tridiagonal systems in GPU programming â^' steady and unsteady flow simulation. Mechanics and Industry, 2020, 21, 303.	0.5	2
18	Analytical solution of the low Reynolds third-grade non-Newtonian fluids flow inside rough circular pipes. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 1018-1030.	1.5	6

#	Article	IF	Citations
19	Aerodynamic performance enhancement of horizontal axis wind turbines by dimples on blades: Numerical investigation. Energy, 2020, 195, 117056.	4.5	49
20	Numerical simulation of unsteady flows with forced periodical oscillation around hydrofoils using locally power-law preconditioning method. European Journal of Mechanics, B/Fluids, 2019, 75, 153-164.	1.2	2
21	Numerical study of the influence of geometric form of chimney on the performance of a solar updraft tower power plant. Energy and Environment, 2019, 30, 685-706.	2.7	5
22	A Cell-Elimination method for solving steady and unsteady Navierâ€“Stokes equations. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 304-319.	1.7	3
23	A New Exact-Analytical Solution for Convective Heat Transfer of Nanofluids Flow in Isothermal Pipes. Journal of Mechanics, 2019, 35, 233-242.	0.7	5
24	A new smoothing approach for accelerating the convergence of power-law preconditioning method in steady and unsteady flows simulation. International Journal of Mechanical Sciences, 2018, 141, 316-329.	3.6	8
25	The onset of MHD nanofluid convection between a porous layer in the presence of purely internal heat source and chemical reaction. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2657-2672.	2.0	21
26	Multiobjective optimization of thermohydrodynamic journal bearing using MOPSO algorithm. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 657-671.	1.0	12
27	Peristaltic biofluids flow through vertical porous human vessels using third-grade non-Newtonian fluids model. Biomechanics and Modeling in Mechanobiology, 2018, 17, 71-86.	1.4	3
28	The onset of nanofluid natural convection inside a porous layer with rough boundaries. Journal of Molecular Liquids, 2018, 272, 344-352.	2.3	23
29	Low Reynolds unsteady flow simulation around NACA0012 airfoil with active flow control. Meccanica, 2018, 53, 3457-3476.	1.2	5
30	Natural Convection Heat Transfer in 2D and 3D Trapezoidal Enclosures Filled with Nanofluid. Journal of Applied Mechanics and Technical Physics, 2018, 59, 292-302.	0.1	9
31	A NEW APPROACH TO NUMERICAL INVESTIGATION OF GFX AND POWER-PIPE DRAIN WATER HEAT RECOVERY (DWHR) SYSTEMS IN BUILDINGS. Heat Transfer Research, 2018, 49, 1339-1352.	0.9	8
32	Non-Newtonian fluid flow induced by pressure gradient and time-periodic electroosmosis in a microtube. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 5015-5025.	0.8	10
33	The analysis of MHD blood flows through porous arteries using a locally modified homogenous nanofluids model. Bio-Medical Materials and Engineering, 2016, 27, 15-28.	0.4	6
34	Pulsatile magneto-hydrodynamic blood flows through porous blood vessels using a third grade non-Newtonian fluids model. Computer Methods and Programs in Biomedicine, 2016, 126, 3-19.	2.6	33
35	Determining resistance coefficient for series 60 vessels using numerical and experimental modelling. Ships and Offshore Structures, 2016, 11, 874-879.	0.9	2
36	Hydrodynamic characteristics of blowing and suction on sheet-cavitating flows around hydrofoils. Ocean Engineering, 2016, 114, 25-36.	1.9	10

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37	Numerical Study of Thermohydrodynamic Characteristics of Oil Tilting-Pad Journal Bearings with a Self-Pumping Fluid Flow Circulation. Tribology Transactions, 2015, 58, 18-30.	1.1	19
38	Cavitating/non-cavitating flows simulation by third-order finite volume scheme and power-law preconditioning method. Applied Mathematics and Mechanics (English Edition), 2013, 34, 209-228.	1.9	2
39	An improved progressive preconditioning method for steady nonâ€cavitating and sheetâ€cavitating flows. International Journal for Numerical Methods in Fluids, 2012, 68, 210-232.	0.9	19
40	Numerical investigation on a new local preconditioning method for solving the incompressible inviscid, non-cavitating and cavitating flows. Journal of the Franklin Institute, 2011, 348, 1208-1230.	1.9	11
41	Local pressure preconditioning method for steady incompressible flows. International Journal of Computational Fluid Dynamics, 2010, 24, 169-186.	0.5	6
42	The Jamesonâ€™s numerical method for solving the incompressible viscous and inviscid flows by means of artificial compressibility and preconditioning method. Applied Mathematics and Computation, 2008, 206, 651-661.	1.4	23
43	A locally modified single-phase model for analyzing magnetohydrodynamic boundary layer flow and heat transfer of nanofluids over nonlinearly stretching sheet with chemical reaction. Journal of Theoretical and Applied Mechanics, 0, , 81.	0.2	4