

Pooria Akbarzadeh

List of Publications by Year in descending order

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papers

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932766

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all docs

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docs citations

47
times ranked

282
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerodynamic performance enhancement of horizontal axis wind turbines by dimples on blades: Numerical investigation. <i>Energy</i> , 2020, 195, 117056.	4.5	49
2	Pulsatile magneto-hydrodynamic blood flows through porous blood vessels using a third grade non-Newtonian fluids model. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 126, 3-19.	2.6	33
3	The Jameson's numerical method for solving the incompressible viscous and inviscid flows by means of artificial compressibility and preconditioning method. <i>Applied Mathematics and Computation</i> , 2008, 206, 651-661.	1.4	23
4	The onset of nanofluid natural convection inside a porous layer with rough boundaries. <i>Journal of Molecular Liquids</i> , 2018, 272, 344-352.	2.3	23
5	The onset of MHD nanofluid convection between a porous layer in the presence of purely internal heat source and chemical reaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2657-2672.	2.0	21
6	An improved progressive preconditioning method for steady non-cavitating and sheet-cavitating flows. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 68, 210-232.	0.9	19
7	Numerical Study of Thermohydrodynamic Characteristics of Oil Tilting-Pad Journal Bearings with a Self-Pumping Fluid Flow Circulation. <i>Tribology Transactions</i> , 2015, 58, 18-30.	1.1	19
8	The effect of floating balls density on evaporation suppression of water reservoirs in the presence of surface flows. <i>Journal of Hydrology</i> , 2020, 591, 125323.	2.3	13
9	Multiobjective optimization of thermohydrodynamic journal bearing using MOPSO algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018, 232, 657-671.	1.0	12
10	Numerical investigation on a new local preconditioning method for solving the incompressible inviscid, non-cavitating and cavitating flows. <i>Journal of the Franklin Institute</i> , 2011, 348, 1208-1230.	1.9	11
11	Advances in numerical approaches for microfluidic cell analysis platforms. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 295-307.	1.5	11
12	Cavitation reduction in the globe valve using oblique perforated cages: A numerical investigation. <i>Flow Measurement and Instrumentation</i> , 2022, 83, 102110.	1.0	11
13	Hydrodynamic characteristics of blowing and suction on sheet-cavitating flows around hydrofoils. <i>Ocean Engineering</i> , 2016, 114, 25-36.	1.9	10
14	Non-Newtonian fluid flow induced by pressure gradient and time-periodic electroosmosis in a microtube. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 5015-5025.	0.8	10
15	Hydrodynamic characteristics of heated/non-heated and grooved/un-grooved spheres during free-surface water entry. <i>Journal of Fluids and Structures</i> , 2020, 97, 103100.	1.5	10
16	Water entry of grooved spheres: Effect of the number of grooves and impact velocity. <i>Journal of Fluids and Structures</i> , 2021, 100, 103198.	1.5	10
17	Natural Convection Heat Transfer in 2D and 3D Trapezoidal Enclosures Filled with Nanofluid. <i>Journal of Applied Mechanics and Technical Physics</i> , 2018, 59, 292-302.	0.1	9
18	A new smoothing approach for accelerating the convergence of power-law preconditioning method in steady and unsteady flows simulation. <i>International Journal of Mechanical Sciences</i> , 2018, 141, 316-329.	3.6	8

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Experimental study on the entry of solid spheres into Newtonian and non-Newtonian fluids. Physics of Fluids, 2022, 34, .	1.6	8
22	Experimental investigation of water entry of dimpled spheres. Ocean Engineering, 2022, 250, 110992.	1.9	8
23	Local pressure preconditioning method for steady incompressible flows. International Journal of Computational Fluid Dynamics, 2010, 24, 169-186.	0.5	6
24	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
25	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
26	Low Reynolds unsteady flow simulation around NACA0012 airfoil with active flow control. Meccanica, 2018, 53, 3457-3476.	1.2	5
27	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
28	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
29	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
30	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
31	Experimental analysis of water entry problem considering hollow cylinders: The impact of hole geometry. Ocean Engineering, 2022, 259, 111906.	1.9	4
32	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
33	A Cell-Elimination method for solving steady and unsteady Navier–Stokes equations. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 304-319.	1.7	3
34	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
35	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
36	Determining resistance coefficient for series 60 vessels using numerical and experimental modelling. Ships and Offshore Structures, 2016, 11, 874-879.	0.9	2

#	ARTICLE	IF	CITATIONS
37	Numerical simulation of unsteady flows with forced periodical oscillation around hydrofoils using locally power-law preconditioning method. <i>European Journal of Mechanics, B/Fluids</i> , 2019, 75, 153-164.	1.2	2
38	Parallel Thomas approach development for solving tridiagonal systems in GPU programming \hat{a} ' steady and unsteady flow simulation. <i>Mechanics and Industry</i> , 2020, 21, 303.	0.5	2
39	A new insight into a thermoplastic microfluidic device aimed at improvement of oxygenation process and avoidance of shear stress during cell culture. <i>Biomedical Microdevices</i> , 2022, 24, 15.	1.4	2
40	SADI approach programming on GPU: convective heat transfer of nanofluids flow inside a wavy channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 31-46.	2.0	1
41	Numerical study of the cavitation effect on plain bearings in constant and variable viscosity states. <i>Meccanica</i> , 2021, 56, 2507-2516.	1.2	1
42	An investigation on nonlinear viscoelastic lubrication using FENE-P constitutive equation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	0.8	1
43	Accelerate the convergence of turbulent flows simulation: A novel progressive locally power-law preconditioning method. <i>Computers and Fluids</i> , 2022, 241, 105483.	1.3	1