

Arun Mahalingam

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

266
citations

1039880

9
h-index

940416

16
g-index

22
all docs

22
docs citations

22
times ranked

219
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of the effect of turbulence transition on the hemodynamic parameters in human coronary arteries. <i>Cardiovascular Diagnosis and Therapy</i> , 2016, 6, 208-220.	0.7	52
2	Optimisation of monotube magnetorheological damper under shear mode. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 2225-2240.	0.8	33
3	An approach for characterizing twin-tube shear-mode magnetorheological damper through coupled FE and CFD analysis. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	0.8	30
4	Evaluation of optimal parameters of MR fluids for damper application using particle swarm and response surface optimisation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 3683-3694.	0.8	26
5	Effect of Stenosis Severity on Wall Shear Stress Based Hemodynamic Descriptors using Multiphase Mixture Theory. <i>Journal of Applied Fluid Mechanics</i> , 2018, 11, 1497-1509.	0.4	19
6	Impact of coronary tortuosity on the artery hemodynamics. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 126-147.	3.3	18
7	Performance analysis of a semi-active suspension system using coupled CFD-FEA based non-parametric modeling of low capacity shear mode monotube MR damper. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 1214-1231.	1.1	16
8	EFFECT OF STENOSIS SEVERITY ON SHEAR-INDUCED DIFFUSION OF RED BLOOD CELLS IN CORONARY ARTERIES. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1950034.	0.3	13
9	Effect of temperature on sedimentation stability and flow characteristics of magnetorheological fluids with damper as the performance analyser. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 555, 169342.	1.0	12
10	Computation of turbulent flow inside an enclosure with central partition. <i>Progress in Computational Fluid Dynamics</i> , 2005, 5, 455.	0.1	9
11	Numerical Analysis of Wall Shear Stress Parameters of Newtonian Pulsatile Blood Flow Through Coronary Artery and Correlation to Atherosclerosis. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 107-118.	0.3	6
12	Inverse Approach Using Bio-Inspired Algorithm Within Bayesian Framework for the Estimation of Heat Transfer Coefficients During Solidification of Casting. <i>Journal of Heat Transfer</i> , 2020, 142, .	1.2	6
13	Simultaneous estimation of unknown parameters using a-priori knowledge for the estimation of interfacial heat transfer coefficient during solidification of Sn-5wt%Pb alloy an ANN-driven Bayesian approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	0.8	5
14	Inverse Estimation of Interfacial Heat Transfer Coefficient During the Solidification of Sn-5wt%Pb Alloy Using Evolutionary Algorithm. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 227-237.	0.3	5
15	Comparative computational appraisal of supercritical CO ₂ -based natural circulation loop: effect of heat-exchanger and isothermal wall. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2219-2229.	2.0	4
16	Highway Mounted Horizontal Axial Flow Turbines for Wind Energy Harvesting From Cruising Vehicles. , 2016, , .		3
17	Effect of magnetic permeability, shearing length, and shear gap on magnetic flux density of the magnetorheological damper through finite element analysis. <i>Materials Today: Proceedings</i> , 2021, 39, 1613-1619.	0.9	3
18	Numerical investigation of tube furnace toxicity measurement method (ISO 19700). <i>Fire and Materials</i> , 2012, 36, 17-30.	0.9	2

#	ARTICLE	IF	CITATIONS
19	Energy Harvesting from Vortex Induced Vibrations Using Vented Cylinders Mounted on Light Rail Locomotive. , 2016, , .		2
20	Studies on Ignition Delay and Flame Spread in High-Performance Solid Rocket Motors. Applied Mechanics and Materials, 0, 232, 316-321.	0.2	1
21	Impact of increased particle concentration on magnetorheological fluid properties and their damping performance. Korea Australia Rheology Journal, 0, , .	0.7	1
22	Comparative study on the effect of single coil and multi coil magnetorheological damper through finite element analysis. Journal of Physics: Conference Series, 2020, 1706, 012193.	0.3	0