# Nowrouz Mohammad Nouri

List of Publications by Year
in descending order



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|---|---|---|---|
| 60 papers | 731 citations | 567144 15 h-index | 610775 24 g-index |
| 60 all docs | 60 docs citations | 60 times ranked | 639 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Highly stretchable and sensitive strain sensors based on carbon nanotubeâ€“elastomer nanocomposites: the effect of environmental factors on strain sensing performance. Journal of Materials Chemistry C, 2020, 8, 6185-6195. | 2.7 | 60 |
| 2 | Multi-Fluid VoF model assessment to simulate the horizontal airâ€“water intermittent flow. Chemical Engineering Research and Design, 2019, 152, 48-59. | 2.7 | 56 |
| 3 | Slip length measurement of pdms/hydrophobic silica superhydrophobic coating for drag reduction application. Surface and Coatings Technology, 2020, 404, 126428. | 2.2 | 45 |
| 4 | Prediction of hydrodynamic entrance length for single and two-phase flow in helical coils. Chemical Engineering and Processing: Process Intensification, 2014, 86, 9-21. | 1.8 | 33 |
| 5 | Numerical and Experimental Study of a Ventilated Supercavitating Vehicle. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, . | 0.8 | 29 |
| 6 | Optimization of a marine contra-rotating propellers set. Ocean Engineering, 2018, 167, 397-404. | 1.9 | 29 |
| 7 | Drag Reduction in a Turbulent Channel Flow with Hydrophobic Wall. Journal of Hydrodynamics, 2012, 24, 458-466. | 1.3 | 28 |
| 8 | The effect of bubble on pressure drop reduction in helical coil. Experimental Thermal and Fluid Science, 2013, 51, 251-256. | 1.5 | 27 |
| 9 | AUV hull shape design based on desired pressure distribution. Journal of Marine Science and Technology, 2016, 21, 203-215. | 1.3 | 27 |
| 10 | An algebraic closure model for the DNS of turbulent drag reduction by Brownian microfiber additives in a channel flow. Journal of Non-Newtonian Fluid Mechanics, 2015, 226, 60-66. | 1.0 | 21 |
| 11 | Optimal input design for hydrodynamic derivatives estimation of nonlinear dynamic model of AUV. Nonlinear Dynamics, 2018, 92, 139-151. | 2.7 | 19 |
| 12 | An experimental study of cavity and Worthington jet formations caused by a falling sphere into an oil film on water. Applied Ocean Research, 2020, 102, 102319. | 1.8 | 19 |
| 13 | Shape optimization of two-dimensional cavitators in supercavitating flows, using NSGA II algorithm. Applied Ocean Research, 2008, 30, 305-310. | 1.8 | 18 |
| 14 | Analysis of shear rate effects on drag reduction in turbulent channel flow with superhydrophobic wall. Journal of Hydrodynamics, 2013, 25, 944-953. | 1.3 | 18 |
| 15 | Electrical properties of stretchable and skinâ€“mountable PDMS/MWCNT hybrid composite films for flexible strain sensors. Journal of Composite Materials, 2019, 53, 3047-3060. | 1.2 | 17 |
| 16 | Bubble effect on pressure drop reduction in upward pipe flow. Experimental Thermal and Fluid Science, 2013, 44, 592-598. | 1.5 | 16 |
| 17 | An iterative scheme for two-dimensional supercavitating flow. Ocean Engineering, 2009, 36, 708-715. | 1.9 | 15 |
| 18 | Chaotic advection induced heat transfer enhancement in a chevron-type plate heat exchanger. Heat and Mass Transfer, 2013, 49, 1535-1548. | 1.2 | 15 |

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|---|---|---|---|
| 19 | Analytical and experimental study of hydrodynamic and hydroacoustic effects of air injection flow rate in ventilated supercavitation. Ocean Engineering, 2015, 95, 94-105. | 1.9 | 14 |
| 20 | Experimental studies of hysteresis behavior of partial cavitation around NACA0015 hydrofoil. Ocean Engineering, 2020, 217, 107482. | 1.9 | 14 |
| 21 | Study of intermittent flow characteristics experimentally and numerically in a horizontal pipeline. Journal of Natural Gas Science and Engineering, 2020, 79, 103326. | 2.1 | 14 |
| 22 | Dynamic thermoelectromechanical characterization of carbon nanotube nanocomposite strain sensors. Sensors and Actuators A: Physical, 2021, 332, 113122. | 2.0 | 13 |
| 23 | An experimental study on the effect of air bubble injection on the flow induced rotational hub. Experimental Thermal and Fluid Science, 2009, 33, 386-392. | 1.5 | 12 |
| 24 | Fabrication method of large-scale and mechanically durable superhydrophobic silicon rubber/aerogel coating on fibrous substrates. Journal of Coatings Technology Research, 2017, 14, 477-488. | 1.2 | 11 |
| 25 | Large eddy simulation of natural cavitating flows in Venturi-type sections. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 369-381. | 1.1 | 10 |
| 26 | An apparatus to estimate the hydrodynamic coefficients of autonomous underwater vehicles using water tunnel testing. Review of Scientific Instruments, 2016, 87, 065106. | 0.6 | 10 |
| 27 | Robust input design for nonlinear dynamic modeling of AUV. ISA Transactions, 2017, 70, 288-297. | 3.1 | 9 |
| 28 | Numerical simulation of unsteady cavitating flow over a disc. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 1245-1253. | 1.1 | 8 |
| 29 | Effect of Curing Condition on Superhydrophobic Surface for 7075Al. Journal of Dispersion Science and Technology, 2012, 33, 771-774. | 1.3 | 8 |
| 30 | Equalization of acoustic source using multi-pole sources and source strength estimation using inverse method. Applied Acoustics, 2016, 113, 210-220. | 1.7 | 8 |
| 31 | Numerical investigation of the effects of camber ratio on the hydrodynamic performance of a marine propeller. Ocean Engineering, 2018, 148, 632-636. | 1.9 | 8 |
| 32 | Numerical Method to Predict Slip Length in Turbulent Channel Flow. Journal of Applied Fluid Mechanics, 2016, 9, 719-728. | 0.4 | 8 |
| 33 | The Effects of the Reynolds Number on the Hydrodynamics Characteristics of an AUV. Journal of Applied Fluid Mechanics, 2018, 11, 343-352. | 0.4 | 8 |
| 34 | Experimental Investigation on Supercavitating Flow over Parabolic Cavitators. Journal of Applied Fluid Mechanics, 2017, 10, 95-102. | 0.4 | 7 |
| 35 | Mathematical Approach to Investigate the Behaviour of the Principal Parameters in Axisymmetric Supercavitating Flows, Using Boundary Element Method. Journal of Mechanics, 2009, 25, 465-473. | 0.7 | 6 |
| 36 | Facile, robust and large-scale fabrication method of mechanically durable superhydrophobic PDMS/aerogel coating on fibrous substrates. Cellulose, 2017, 24, 3453-3467. | 2.4 | 6 |

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|---|---|---|---|
| 37 | Enhancement of dropwise condensation heat transfer on hydrophilic-hydrophobic hybrid surface using microparticles. Experimental Heat Transfer, 2022, 35, 533-552. | 2.3 | 6 |
| 38 | Performance improvement of surface piercing propeller at low advance coefficients by aeration. Ocean Engineering, 2021, 238, 109551. | 1.9 | 6 |
| 39 | An experimental study on the influence of fluid flow pattern on microbubble generation. Forschung Im Ingenieurwesen/Engineering Research, 2008, 72, 233-240. | 1.0 | 5 |
| 40 | Acoustic model order reduction for the lowest condition number in inverse method. AIP Advances, 2017, 7, 065010. | 0.6 | 5 |
| 41 | Gradual contraction of pipe cross-section effects on transient behavior of airâ€“water slug flow. Fluid Dynamics Research, 2020, 52, 025502. | 0.6 | 5 |
| 42 | An iterative scheme for axisymmetric supercavitating flow. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 1869-1876. | 1.1 | 4 |
| 43 | A study on the effects of fluctuations of the supercavity parameters. Experimental Thermal and Fluid Science, 2015, 60, 188-200. | 1.5 | 4 |
| 44 | A MULTI-OBJECTIVE APPROACH FOR DETERMINING THE NUMBER OF BLADES ON A NACA MARINE PROPELLER. Brodogradnja, 2016, 67, 15-32. | 0.6 | 4 |
| 45 | A calibration rig for multi-component internal strain gauge balance using the new design-of-experiment (DOE) approach. Review of Scientific Instruments, 2018, 89, 025111. | 0.6 | 4 |
| 46 | Designing of the body shape of an autonomous underwater vehicle using the design of experiments method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6307-6325. | 1.1 | 4 |
| 47 | Microbubble Generation Using High Turbulent Intensity Flow. , 2007, , 313. | | 3 |
| 48 | Development and Evaluation of Calibration Procedure for a Force-Moment Balance Using Design of Experiments. Latin American Journal of Solids and Structures, 2016, 13, 119-135. | 0.6 | 3 |
| 49 | On the Mechanism of Drag Reduction in Fully-Developed Turbulent Channel Flow with a Streamwise Micro-featured Superhydrophobic Wall. Journal of Applied Fluid Mechanics, 2017, 10, 1363-1374. | 0.4 | 3 |
| 50 | Unsteady modelling of cavitating flow with artificial viscosity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 123-132. | 1.1 | 2 |
| 51 | Developing general acoustic model for noise sources and parameters estimation. AIP Advances, 2017, 7, . | 0.6 | 2 |
| 52 | Identification of Drag Force of the Underwater Vehicles. Journal of Applied Fluid Mechanics, 2017, 10, 275-281. | 0.4 | 2 |
| 53 | Improvement of a Microbubble Generator's Performance Via Reliance on Fluid Dynamics Characteristics. Journal of Mechanics, 2009, 25, 189-194. | 0.7 | 1 |
| 54 | Enhancement of condensation heat transfer at aluminum surfaces via laser-induced surface roughening. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1. | 0.8 | 1 |

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| 55 | Regression Modeling of surface piercing propeller performance based on trailing edge geometrical parameters using CFD method. Ocean Engineering, 2022, 259, 111752. | 1.9 | 1 |
| 56 | Kinetic energy conservation in 2D vortical flow. Computers and Fluids, 2008, 37, 1056-1060. | 1.3 | 0 |
| 57 | Investigation of the Convection Term Discretization Schemes for a Force-Generated Ring-Vortex. Journal of Mechanics, 2012, 28, N13-N21. | 0.7 | 0 |
| 58 | Investigation of the explicit cutoff filtering in Large Eddy Simulation. Progress in Computational Fluid Dynamics, 2012, 12, 1. | 0.1 | 0 |
| 59 | Hydroelastic Effects of the Camber Ratio on A Ducted Marine Propeller in A Wake Flow. Journal of Applied Mechanics and Technical Physics, 2018, 59, 445-450. | 0.1 | 0 |
| 60 | Experimental Study on Chaotic Mixing Created by a New Type of Mixer with Rotational Blades. Advances in Mechanical Engineering, 2012, 4, 543253. | 0.8 | 0 |