

Mohammad Hassan Shojaeefard

List of Publications by Year in descending order

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78
papers

1,868
citations

304602

22
h-index

302012

39
g-index

78
all docs

78
docs citations

78
times ranked

1720
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Interactions between hybrid nanosized particles and convection melting inside an enclosure with partially active walls: 2D lattice Boltzmann-based numerical investigation. <i>Heat Transfer</i> , 2021, 50, 4908-4936. | 1.7 | 9 |
| 2 | Steady-state estimation of thermal contact conductance between sliding disk and stationary cylinder with similar/dissimilar materials under the isothermally heated boundary condition. <i>Heat Transfer</i> , 2021, 50, 8012-8034. | 1.7 | 1 |
| 3 | Impact of Carbon Paper Anisotropy on Water Droplet Movement through the Electrodes of Proton-Exchange Membrane Fuel Cells. <i>Energy & Fuels</i> , 2020, 34, 10039-10049. | 2.5 | 7 |
| 4 | Sensitivity analysis and optimisation of suspension bushing using Taguchi method and grey relational analysis. <i>Vehicle System Dynamics</i> , 2019, 57, 855-873. | 2.2 | 8 |
| 5 | CFD simulation and Pareto-based multi-objective shape optimization of the centrifugal pump inducer applying GMDH neural network, modified NSGA-II, and TOPSIS. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1509-1525. | 1.7 | 25 |
| 6 | Optimal design and applicability of electric power steering system for automotive platform. <i>Journal of Central South University</i> , 2019, 26, 839-851. | 1.2 | 7 |
| 7 | Effect of surface temperature on the impaction and deposition of micron-sized engine oil particles on a heated flat plate. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1. | 0.8 | 0 |
| 8 | Energy absorption analysis for tapered multi-cell tubes improved by foams: Theoretical development and numerical simulation. <i>Composite Structures</i> , 2019, 207, 213-222. | 3.1 | 26 |
| 9 | Effects of electrode compression on the water droplet removal from proton exchange membrane fuel cells. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 136-145. | 1.2 | 23 |
| 10 | Wear and mechanical properties of surface hybrid metal matrix composites on Al-Si aluminum alloys fabricated by friction stir processing. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 790-799. | 0.7 | 18 |
| 11 | Free vibration of an ultra-fast-rotating-induced cylindrical nano-shell resting on a Winkler foundation under thermo-electro-magneto-elastic condition. <i>Applied Mathematical Modelling</i> , 2018, 61, 255-279. | 2.2 | 58 |
| 12 | Magnetic field effect on free vibration of smart rotary functionally graded nano/microplates: A comparative study on modified couple stress theory and nonlocal elasticity theory. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2492-2507. | 1.4 | 12 |
| 13 | Effect of tool pin profile on distribution of reinforcement particles during friction stir processing of $B_{4}C$ /aluminum composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, 232, 637-651. | 0.7 | 28 |
| 14 | Optimal platform design using non-dominated sorting genetic algorithm II and technique for order of preference by similarity to ideal solution; application to automotive suspension system. <i>Engineering Optimization</i> , 2018, 50, 471-482. | 1.5 | 10 |
| 15 | Flame propagation model for a rotary Atkinson cycle SI engine. <i>International Journal of Automotive Technology</i> , 2018, 19, 9-25. | 0.7 | 4 |
| 16 | An Investigation of the Potential of Improving an R1234yf Parallel Flow Condenser Performance Using Modeling and Hybrid Procedure of the Modified NSGA-II and TOPSIS. <i>Heat Transfer Engineering</i> , 2018, 39, 1405-1422. | 1.2 | 2 |
| 17 | Free vibration and critical angular velocity of a rotating variable thickness two-directional FG circular microplate. <i>Microsystem Technologies</i> , 2018, 24, 1525-1543. | 1.2 | 28 |
| 18 | Vibration and buckling analysis of a rotary functionally graded piezomagnetic nanoshell embedded in viscoelastic media. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2344-2361. | 1.4 | 15 |

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|----|--|-----|-----------|
| 19 | Evaluating different types of artificial neural network structures for performance prediction of compact heat exchanger. <i>Neural Computing and Applications</i> , 2017, 28, 3953-3965. | 3.2 | 14 |
| 20 | Nonlinear dynamic response of FGM beams with Winkler–Pasternak foundation subject to noncentral low velocity impact in thermal field. <i>Composite Structures</i> , 2017, 167, 132-143. | 3.1 | 16 |
| 21 | An efficient sensitivity analysis method for modified geometry of Macpherson suspension based on Pearson correlation coefficient. <i>Vehicle System Dynamics</i> , 2017, 55, 827-852. | 2.2 | 18 |
| 22 | Micro temperature-dependent FG porous plate: Free vibration and thermal buckling analysis using modified couple stress theory with CPT and FSDT. <i>Applied Mathematical Modelling</i> , 2017, 50, 633-655. | 2.2 | 80 |
| 23 | Low-velocity impact response of functionally graded doubly curved panels with Winkler–Pasternak elastic foundation: An analytical approach. <i>Composite Structures</i> , 2017, 162, 351-364. | 3.1 | 16 |
| 24 | The effect of reinforcement type on the microstructure, mechanical properties, and wear resistance of A356 matrix composites produced by FSP. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 1391-1407. | 1.5 | 46 |
| 25 | Wear Performance of A356 Matrix Composites Reinforced with Different Types of Reinforcing Particles. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 4297-4310. | 1.2 | 39 |
| 26 | Multi-objective optimization of an automotive louvered fin-flat tube condenser for enhancing HVAC system cooling performance. <i>Applied Thermal Engineering</i> , 2017, 125, 546-558. | 3.0 | 24 |
| 27 | A family base optimization of a developed nonlinear vehicle suspension model using gray family design algorithm. <i>Nonlinear Dynamics</i> , 2017, 90, 649-669. | 2.7 | 5 |
| 28 | An investigation of the effects of geometry design on refrigerant flow mal-distribution in parallel flow condenser using a hybrid method of finite element approach and CFD simulation. <i>Applied Thermal Engineering</i> , 2017, 112, 431-449. | 3.0 | 18 |
| 29 | Developing a hybrid procedure of one dimensional finite element method and CFD simulation for modeling refrigerant flow mal-distribution in parallel flow condenser. <i>International Journal of Refrigeration</i> , 2017, 73, 39-53. | 1.8 | 12 |
| 30 | Hybrid multi-objective optimization of microstructural and mechanical properties of B4C/A356 composites fabricated by FSP using TOPSIS and modified NSGA-II. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 2317-2333. | 1.7 | 47 |
| 31 | Parametric Modal Study and Optimization of the Floor Pan of a B-Segment Automotive Using a Hybrid Method of Taguchi and a Newly Developed MCDM Model. <i>Latin American Journal of Solids and Structures</i> , 2016, 13, 3039-3061. | 0.6 | 4 |
| 32 | Developing and Multi-Objective Optimization of a Combined Energy Absorber Structure Using Polynomial Neural Networks and Evolutionary Algorithms. <i>Latin American Journal of Solids and Structures</i> , 2016, 13, 2552-2572. | 0.6 | 10 |
| 33 | Multi-objective optimization of a natural aspirated three-cylinder spark ignition engine using modified non-dominated sorting genetic algorithm and multicriteria decision making. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, . | 0.8 | 10 |
| 34 | Modeling and combined application of the modified NSGA-II and TOPSIS to optimize a refrigerant-to-air multi-pass louvered fin-and-flat tube condenser. <i>Applied Thermal Engineering</i> , 2016, 103, 212-225. | 3.0 | 22 |
| 35 | Elastic Mechanical Stress Analysis in a 2D-FGM Thick Finite Length Hollow Cylinder with Newly Developed Material Model. <i>Acta Mechanica Solida Sinica</i> , 2016, 29, 178-191. | 1.0 | 20 |
| 36 | Theoretical development and numerical investigation on energy absorption behavior of tapered multi-cell tubes. <i>Thin-Walled Structures</i> , 2016, 102, 98-110. | 2.7 | 65 |

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|----|---|-----|-----------|
| 37 | A review on microstructure reconstruction of PEM fuel cells porous electrodes for pore scale simulation. International Journal of Hydrogen Energy, 2016, 41, 20276-20293. | 3.8 | 91 |
| 38 | Multi-criteria decision making approach for selecting the best friction distribution in superplastic forming of a vehicle component. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2016, 230, 146-157. | 1.4 | 7 |
| 39 | Studying the Transient Thermal Contact Conductance Between the Exhaust Valve and Its Seat Using the Inverse Method. International Journal of Thermophysics, 2016, 37, 1. | 1.0 | 4 |
| 40 | Investigation of engine oil micro-droplets deposition using a round impinging jet. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 721-734. | 0.8 | 1 |
| 41 | Numerical Simulation of the Thermal Performance of a Nanofluid-Filled Heat Pipe. Heat Transfer Engineering, 2016, 37, 220-231. | 1.2 | 10 |
| 42 | Investigation on the optimal simplified model of BIW structure using FEM. Latin American Journal of Solids and Structures, 2015, 12, 1972-1990. | 0.6 | 6 |
| 43 | Three-dimensional wave propagation on orthotropic cylindrical shells with arbitrary thickness considering state space method. Composite Structures, 2015, 132, 239-254. | 3.1 | 13 |
| 44 | Shape design optimization of cylindrical tank using b-spline curves. Computers and Fluids, 2015, 109, 100-112. | 1.3 | 14 |
| 45 | An integrated vehicle dynamic control strategy for three-wheeled vehicles. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2015, 229, 225-244. | 0.5 | 5 |
| 46 | Investigation of friction stir welding tool parameters using FEM and neural network. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2015, 229, 209-217. | 0.7 | 22 |
| 47 | Taguchi optimization of micron sized lubricant oil droplet deposition on a hot plate. Journal of Mechanical Science and Technology, 2015, 29, 3277-3285. | 0.7 | 2 |
| 48 | Mathematical modeling of the complete thermodynamic cycle of a new Atkinson cycle gas engine. Applied Thermal Engineering, 2015, 91, 866-874. | 3.0 | 6 |
| 49 | Experimental study of redesigned draft tube of an Agnew microhydro turbine. Energy Conversion and Management, 2015, 105, 488-497. | 4.4 | 2 |
| 50 | The Investigation of the Valve Spring Stiffness Influence on the Thermal Contact Conductance Between the Exhaust Valve and Its Seat. Heat Transfer Engineering, 2015, 36, 58-67. | 1.2 | 9 |
| 51 | A New Method to Calculate Centrifugal Pump Performance Parameters for Industrial Oils. Journal of Applied Fluid Mechanics, 2015, 8, 673-681. | 0.4 | 8 |
| 52 | Sound transmission across orthotropic cylindrical shells using third-order shear deformation theory. Latin American Journal of Solids and Structures, 2014, 11, 2039-2072. | 0.6 | 6 |
| 53 | Investigation on natural frequency of an optimized elliptical container using real-coded genetic algorithm. Latin American Journal of Solids and Structures, 2014, 11, 113-129. | 0.6 | 5 |
| 54 | A study on acoustic behavior of poroelastic media bonded between laminated composite panels. Latin American Journal of Solids and Structures, 2014, 11, 2379-2407. | 0.6 | 11 |

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|----|---|-----|-----------|
| 55 | Nonlinear transient heat conduction analysis of hollow thick temperature-dependent 2D-FGM cylinders with finite length using numerical method. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 3825-3835. | 0.7 | 14 |
| 56 | Multi objective optimization of friction stir welding parameters using FEM and neural network. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2351-2356. | 1.1 | 70 |
| 57 | Nonlinear Transient Heat Conduction Analysis for a Thick Hollow 2D-FGM Cylinder with Finite Length. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 9001-9014. | 1.1 | 9 |
| 58 | Vehicle dynamics control using an active third-axle system. <i>Vehicle System Dynamics</i> , 2014, 52, 1541-1562. | 2.2 | 7 |
| 59 | Optimization of microstructural and mechanical properties of friction stir welding using the cellular automaton and Taguchi method. <i>Materials & Design</i> , 2014, 64, 660-666. | 5.1 | 54 |
| 60 | Experimental and numerical crashworthiness investigation of combined circular and square sections. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 999-1006. | 0.7 | 17 |
| 61 | Shape optimization of draft tubes for Agnew microhydro turbines. <i>Energy Conversion and Management</i> , 2014, 79, 681-689. | 4.4 | 14 |
| 62 | Pedestrian safety investigation of the new inner structure of the hood to mitigate the impact injury of the head. <i>Thin-Walled Structures</i> , 2014, 77, 77-85. | 2.7 | 29 |
| 63 | Application of Taguchi optimization technique in determining aluminum to brass friction stir welding parameters. <i>Materials & Design</i> , 2013, 52, 587-592. | 5.1 | 57 |
| 64 | A hybrid method of modified NSGA-II and TOPSIS to optimize performance and emissions of a diesel engine using biodiesel. <i>Applied Thermal Engineering</i> , 2013, 59, 309-315. | 3.0 | 120 |
| 65 | Experimental investigation on performance and exhaust emissions of castor oil biodiesel from a diesel engine. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2019-2026. | 1.2 | 30 |
| 66 | Modelling and Pareto optimization of mechanical properties of friction stir welded AA7075/AA5083 butt joints using neural network and particle swarm algorithm. <i>Materials & Design</i> , 2013, 44, 190-198. | 5.1 | 152 |
| 67 | Sensitivity Analysis of the Artificial Neural Network Outputs in Friction Stir Lap Joining of Aluminum to Brass. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-7. | 1.0 | 58 |
| 68 | Optimum Design of 1st Gear Ratio for 4WD Vehicles Based on Vehicle Dynamic Behaviour. <i>Advances in Mechanical Engineering</i> , 2013, 5, 474872. | 0.8 | 2 |
| 69 | Experimental and numerical investigation of the flap application in an airfoil in combination with a cross flow fan. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2012, 22, 742-763. | 1.6 | 11 |
| 70 | Numerical study of the effects of some geometric characteristics of a centrifugal pump impeller that pumps a viscous fluid. <i>Computers and Fluids</i> , 2012, 60, 61-70. | 1.3 | 131 |
| 71 | Comparison of steel, aluminum and composite bonnet in terms of pedestrian head impact. <i>Safety Science</i> , 2011, 49, 1371-1380. | 2.6 | 35 |
| 72 | Two-dimensional modeling of a salt-gradient solar pond with wall shading effect and thermo-physical properties dependent on temperature and concentration. <i>Journal of Thermal Science</i> , 2011, 20, 362-370. | 0.9 | 19 |

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|----|---|-----|-----------|
| 73 | Experimental Study of the Heat Transfer Across Periodically Contacting Surfaces. Journal of Mechanics, 2009, 25, 307-311. | 0.7 | 3 |
| 74 | Inverse heat transfer problem of thermal contact conductance estimation in periodically contacting surfaces. Journal of Thermal Science, 2009, 18, 150-159. | 0.9 | 16 |
| 75 | Numerical Study of Airflow around Vehicle A-pillar Region and Windnoise Generation Prediction. American Journal of Applied Sciences, 2009, 6, 276-284. | 0.1 | 2 |
| 76 | Thermal Contact Analysis Using Identification Method. Heat Transfer Engineering, 2008, 29, 85-96. | 1.2 | 14 |
| 77 | The Numerical Estimation of Thermal Contact Resistance in Contacting Surfaces. American Journal of Applied Sciences, 2008, 5, 1566-1571. | 0.1 | 22 |
| 78 | Generalized thermoelastic analysis of layer interface excited by pulsed laser heating. Engineering Analysis With Boundary Elements, 2003, 27, 863-869. | 2.0 | 13 |