

# Asst Ahmed Ramadhan Al-Obaidi

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

880  
citations

471509

17  
h-index

552781

26  
g-index

39  
all docs

39  
docs citations

39  
times ranked

184  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The effect of different twisted tape inserts configurations on fluid flow characteristics, pressure drop, thermo-hydraulic performance and heat transfer enhancement in the 3D circular tube. <i>International Journal of Ambient Energy</i> , 2023, 44, 57-72.                           | 2.5 | 13        |
| 2  | Investigation on effects of varying geometrical configurations on thermal hydraulics flow in a 3D corrugated pipe. <i>International Journal of Thermal Sciences</i> , 2022, 171, 107237.  | 4.9 | 24        |
| 3  | Investigation of thermal flow structure and performance heat transfer in three-dimensional circular pipe using twisted tape based on Taguchi method analysis. <i>Heat Transfer</i> , 2022, 51, 1649-1667.   | 3.0 | 18        |
| 4  | Effect of outlet impeller diameter on performance prediction of centrifugal pump under single-phase and cavitation flow conditions. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2022, 23, 1203-1229.  | 1.0 | 11        |
| 5  | Characterization of internal thermohydraulic flow and heat transfer improvement in a three-dimensional circular corrugated tube surfaces based on numerical simulation and design of experiment. <i>Heat Transfer</i> , 2022, 51, 4688-4713.  | 3.0 | 15        |
| 6  | Effect of different corrugation interruptions Parameters on thermohydrodynamic characteristics and heat transfer performance of 3D Three-dimensional corrugated tube. <i>Case Studies in Thermal Engineering</i> , 2022, 32, 101879.  | 5.7 | 15        |
| 7  | Investigation of the effect of various corrugated pipe configurations on thermo-hydraulic flow and enhancement of heat transfer performance with the development of different correlations. <i>International Journal of Thermal Sciences</i> , 2022, 176, 107528.                         | 4.9 | 16        |
| 8  | A numerical study to investigate the effect of turbulators on thermal flow and heat performance of a 3D pipe. <i>Heat Transfer</i> , 2022, 51, 2458-2475.   | 3.0 | 15        |
| 9  | Thermal flow and heat performance analyses in circular pipe using different twisted tape parameters based on design of experiments. <i>Heat Transfer</i> , 2022, 51, 7202-7232.   | 3.0 | 13        |
| 10 | Investigation of the three-dimensional structure, pressure drop, and heat transfer characteristics of the thermohydraulic flow in a circular pipe with different twisted-tape geometrical configurations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3533-3558.      | 3.6 | 25        |
| 11 | Analysis of the Effect of Various Impeller Blade Angles on Characteristic of the Axial Pump with Pressure Fluctuations Based on Time- and Frequency-Domain Investigations. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2021, 45, 441-459. | 1.3 | 31        |
| 12 | Study the influence of concavity shapes on augmentation of heat transfer performance, pressure field, and fluid pattern in three-dimensional pipe. <i>Heat Transfer</i> , 2021, 50, 4354-4381.  | 3.0 | 14        |
| 13 | Effect of Concavity Configuration Parameters on Hydrodynamic and Thermal Performance in 3D Circular Pipe using Al <sub>2</sub> O <sub>3</sub> Nanofluid Based on CFD Simulation. <i>Journal of Physics: Conference Series</i> , 2021, 1845, 012060.                                       | 0.4 | 11        |
| 14 | Investigation of the flow, pressure drop characteristics, and augmentation of heat performance in a 3D flow pipe based on different inserts of twisted tape configurations. <i>Heat Transfer</i> , 2021, 50, 5049-5079.   | 3.0 | 17        |
| 15 | Investigation of Thermo-Hydraulics Flow and Augmentation of Heat Transfer in the Circular Pipe by Combined Using Corrugated Tube with Dimples and Fitted with Varying Tape Insert Configurations. <i>International Journal of Heat and Technology</i> , 2021, 39, 365-374.                | 0.6 | 17        |
| 16 | The effect of interruptions on thermal characteristics of corrugated tube. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100910.   | 5.7 | 10        |
| 17 | Numerical investigation on effect of various pump rotational speeds on performance of centrifugal pump based on CFD analysis technique. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2021, 12, 2150045.   | 1.4 | 21        |
| 18 | Study of the flow characteristics, pressure drop and augmentation of heat performance in a horizontal pipe with and without twisted tape inserts. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100964.  | 5.7 | 28        |

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|----|--|-----|-----------|
| 19 | Flow field and heat transfer enhancement investigations by using a combination of corrugated tubes with a twisted tape within 3D circular tube based on different dimple configurations. Heat Transfer, 2021, 50, 6868-6885.   | 3.0 | 14        |
| 20 | Flow Field Structure, Characteristics of Thermo-Hydraulic and Heat Transfer Performance Analysis in a Three Dimensions Circular Tube with Different Ball Turbulators Configurations. Arabian Journal for Science and Engineering, 2021, 46, 12253-12282.                                     | 3.0 | 14        |
| 21 | Investigation of flow pattern, thermohydraulic performance and heat transfer improvement in 3D corrugated circular pipe under varying structure configuration parameters with development different correlations. International Communications in Heat and Mass Transfer, 2021, 126, 105394. | 5.6 | 35        |
| 22 | Analysis on flow structure and improvement of heat transfer in 3D circular tube with varying axial groove turbulator configurations. Heat Transfer, 2021, 50, 7333-7348.   | 3.0 | 17        |
| 23 | Numerical Investigation of Fluid Flow, Characteristics of Thermal Performance and Enhancement of Heat Transfer of Corrugated Pipes with Various Configurations. Journal of Physics: Conference Series, 2021, 1733, 012004.   | 0.4 | 16        |
| 24 | Investigation of the influence of various numbers of impeller blades on internal flow field analysis and the pressure pulsation of an axial pump based on transient flow behavior. Heat Transfer, 2020, 49, 2000-2024.   | 3.0 | 39        |
| 25 | Analysis of the flow field, thermal performance, and heat transfer augmentation in circular tube using different dimple geometrical configurations with internal twisted-tape insert. Heat Transfer, 2020, 49, 4153-4172.  | 3.0 | 26        |
| 26 | Detection of Cavitation Phenomenon within a Centrifugal Pump Based on Vibration Analysis Technique in both Time and Frequency Domains. Experimental Techniques, 2020, 44, 329-347.   | 1.5 | 53        |
| 27 | Experimental Investigation of the Effect of Air Injection on Performance and Detection of Cavitation in the Centrifugal Pump Based on Vibration Technique. Arabian Journal for Science and Engineering, 2020, 45, 5657-5671.   | 3.0 | 28        |
| 28 | Influence of guide vanes on the flow fields and performance of axial pump under unsteady flow conditions: Numerical study. Journal of Mechanical Engineering and Sciences, 2020, 14, 6570-6593.  | 0.6 | 24        |
| 29 | EXPERIMENTAL INVESTIGATION OF CAVITATION CHARACTERISTICS WITHIN A CENTRIFUGAL PUMP BASED ON ACOUSTIC ANALYSIS TECHNIQUE. , 2020, 47, 501-515.  |     | 21        |
| 30 | Experimental investigation of using kerosene-biodiesel blend as an alternative fuel in diesel engines. Journal of Physics: Conference Series, 2019, 1279, 012022.  | 0.4 | 0         |
| 31 | Numerical Investigation of Flow Field Behaviour and Pressure Fluctuations within an Axial Flow Pump under Transient Flow Pattern Based on CFD Analysis Method. Journal of Physics: Conference Series, 2019, 1279, 012069.  | 0.4 | 23        |
| 32 | Investigation of effect of pump rotational speed on performance and detection of cavitation within a centrifugal pump using vibration analysis. Heliyon, 2019, 5, e01910.  | 3.2 | 69        |
| 33 | Investigation of fluid field analysis, characteristics of pressure drop and improvement of heat transfer in three-dimensional circular corrugated pipes. Journal of Energy Storage, 2019, 26, 101012.  | 8.1 | 35        |
| 34 | Effects of Different Turbulence Models on Three-Dimensional Unsteady Cavitating Flows in the Centrifugal Pump and Performance Prediction. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 487-509.   | 1.0 | 42        |
| 35 | Numerical Investigations of Transient Flow Characteristic in Axial Flow Pump and Pressure Fluctuation Analysis Based on the CFD Technique. Journal of Engineering Science and Technology Review, 2019, 12, 70-79.  | 0.4 | 32        |
| 36 | Monitoring the Performance of Centrifugal Pump under Single-Phase and Cavitation Condition: A CFD Analysis of the Number of Impeller Blades. Journal of Applied Fluid Mechanics, 2019, 12, 445-459.  | 0.2 | 32        |

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|----|---|-----|-----------|
| 37 | An Experimental Study on Vibration Signatures for Detecting Incipient Cavitation in Centrifugal Pumps Based on Envelope Spectrum Analysis. Journal of Applied Fluid Mechanics, 2019, 12, 2057-2067. | 0.2 | 38        |
| 38 | COMPARISON STUDY BETWEEN THEORETICAL ANALYSIS AND ARTIFICIAL NEURAL NETWORK OF THE CAPILLARY TUBE. Journal of Thermal Engineering, 0, , 690-699.  | 1.6 | 1         |