Hussein Togun Abdullah Sajat

حسين طوكان عبدالله ساجت

Professor

PROFILE

Dr.Eng. Hussein Togun received his BSc. and MSc. Degree in Nuclear Engineering from University of Baghdad, Baghdad, Iraq. Also, he received his Ph.D. degree from University of Malaya, Malaysia. He was ahead department of biomedical engineering from (2015-2019). Also he is a member in editorial board in many international scientific journals and conferences. His research interests include Heat Transfer, Energy, Fluid Mechanics, Nanofluids, Hybrid nanofluids, CFD Simulation.

ACADEMIC TITLES

2023-10-15 **Professor**

ADMINISTRATIVE POSITIONS

2015-06-21 - 2019-07-17 **Head of biomedical engineering department**

PUBLICATIONS (277)

1. **Phase change materials in thermal management of Li-ion batteries: A state-of-the-art review**
   Journal of Energy Storage 145, 119782, 2026 | 2026 | Cited: 17
2. **Toward high-efficiency solid oxide fuel cells: A comprehensive review of hybrid integration techniques**
   Renewable and Sustainable Energy Reviews 229, 116636, 2026 | 2026 | Cited: 3
3. **Corrigendum to “Advancements in combustion technologies: A review of innovations, methodologies, and practical applications”.[Energy Convers. Manag. X 26 (2025) 100964]**
   Energy Conversion and Management: X 29, 101517, 2026 | 2026
4. **Smart Buildings Envelope Utilize Triple PCM for Offset and Reduce Peak Load Using Deep Clustering of Multi-agent Control**
   Energy, 140039, 2026 | 2026 | Cited: 1
5. **Fuel cell electric vehicles: Innovations, challenges, and the path to sustainable mobility**
   International Communications in Heat and Mass Transfer 172, 110520, 2026 | 2026 | Cited: 1
6. **Recent Progress in Fin Configuration Optimization for Phase Change Material Melting**
   Advanced Engineering Forum 58, 91-108, 2026 | 2026
7. **Advancing renewable and sustainable energy: A regional approach**
   Energy & Environment, 0958305X261428669, 2026 | 2026
8. **Performance evaluation of a vapor-compression refrigeration system with r600a refrigerant and alumina and titanium dioxide hybrid nano-lubricants**
   Journal of Thermal Analysis and Calorimetry 151 (1), 583-591, 2026 | 2026
9. **Comprehensive environmental and economic analysis of active-mode greenhouse solar dryers for green peas processing**
   Environmental Progress & Sustainable Energy, e70400, 2026 | 2026
10. **Revolutionizing sustainable energy: A bibliometric analysis and review of AI applications in nano-enhanced thermal storage**
    Journal of Energy Storage 161, 121740, 2026 | 2026

CONTACT

Phone: 07829318426
Email: hussein-tokan@coeng.uobaghdad.edu.iq
hussein-tokan@coeng.uobaghdad.edu.iq

RESEARCH METRICS

h-index (Scopus)	41
h-index (GS)	45
Citations (Scopus)	5600
Citations (GS)	6947
Documents (Scopus)	177
Documents (GS)	213

11. **Heat transfer enhancement in thermal energy storage using novel fin designs: A numerical study**
Journal of Energy Storage 163, 122054, 2026 | 2026

12. **Exploring the catalytic potential of peels of potato, lemon, and citrus limetta as biocatalysts for biodiesel production and the effects of biodiesel with hydrogen blending on ...**
Biomass Conversion and Biorefinery 16 (4), 148, 2026 | 2026

13. **Effect of magnetic nanoparticles in solar energy applications**
Industrial Applications of Functionalized Magnetic Nanoparticles, 409-421, 2026 | 2026

14. **Multiwall carbon nanotubes as efficient photothermal coating: machine learning optimization**
Journal of Thermal Analysis and Calorimetry, 1-17, 2026 | 2026

15. **Reimagining solar desalination: a critical review of innovations in spherical solar still design and performance**
Heat Transfer 55 (3), 1377-1398, 2026 | 2026 | Cited: 1

16. **Enhancing energy efficiency of industrial boiler application by the integration of ground-source heat pumps and photovoltaic-thermal solar water collectors**
Case Studies in Thermal Engineering 73, 106550, 2025 | 2025 | Cited: 2

17. **Intensification of double-tube heat exchangers performance by modified twisted tapes: review perforated and dimpled/baffled twisted tape techniques: SA Kadhim et al.**
Journal of Thermal Analysis and Calorimetry 150 (21), 17157-17184, 2025 | 2025 | Cited: 2

18. **Innovative approaches to waste heat recovery: reclaiming heat for sustainable industrial efficiency**
Journal of Thermal Analysis and Calorimetry 150 (21), 17101-17131, 2025 | 2025 | Cited: 5

19. **Performance evaluation of a vapor-compression refrigeration system with r600a refrigerant and alumina and titanium dioxide hybrid nano-lubricants**
Journal of Thermal Analysis and Calorimetry, 1-9, 2025 | 2025

20. **Review of the trends, evolution, and future research directions of green hydrogen production from wastewaters—Systematic and bibliometric approach**
Energy Conversion and Management: X 25, 100822, 2025 | 2025 | Cited: 24

21. **Artificial intelligence in renewable energy: comprehensive insights into challenges, opportunities, and future trends**
Journal of Thermal Analysis and Calorimetry, 1-31, 2025 | 2025 | Cited: 3

22. **Reimagining Solar Desalination: A Critical Review of Innovations in Spherical Solar Still Design and Performance**
Heat Transfer, 2025 | 2025 | Cited: 1

23. **Performance enhancement of a single slope solar still using wick materials: a comparative experimental investigation with energy, exergy, and economic analysis**
Scientific African 28, e02733, 2025 | 2025 | Cited: 31

24. **Influence of the typical twisted tape inserts into the inner tube of double-pipe heat exchanger: a limited review**
Results in Engineering 25, 104386, 2025 | 2025 | Cited: 21

25. **Advancements in combustion technologies: A review of innovations, methodologies, and practical applications**
Energy Conversion and Management: X 26, 100964, 2025 | 2025 | Cited: 24

26. **Review of insertion scenarios in enhancement performance of double-pipe heat exchanger: case of cut twist tape**
Chemical Engineering and Processing-Process Intensification 213, 110308, 2025 | 2025 | Cited: 18

27. **Current developments in the use of nanotechnology to enhance the generation of sustainable bioenergy**
Sustainable Materials and Technologies 43, e01266, 2025 | 2025 | Cited: 24

28. **Evaluation of multi-branch fin inserts for improved thermal response in latent heat storage systems: A numerical approach**
Case Studies in Thermal Engineering 73, 106464, 2025 | 2025 | Cited: 14

29. **A systematic review of nuclear energy and public acceptance—A detailed analysis of evolution, emerging trends, and future research potentials**
Energy Exploration & Exploitation 43 (5), 2276-2302, 2025 | 2025 | Cited: 20

30. **Investigation of the Two-Way Movement of Williamson Micropolar Fluid in a Porous Medium with Consideration of Activation Energy and Thermal Radiation**
South African Journal of Chemical Engineering, 2025 | 2025

31. **Sustainable cooling solutions for lithium-ion battery thermal management: H. Togun et al.**
Journal of Thermal Analysis and Calorimetry, 1-47, 2025 | 2025 | Cited: 2

32. **Effect of target plate material on heat transfer characteristics in graphene-water nanofluid jet impingement: P. Barmavatu et al.**
Journal of Thermal Analysis and Calorimetry, 1-18, 2025 | 2025

33. **Innovative approaches to waste heat recovery: reclaiming heat for sustainable industrial efficiency**
Journal of Thermal Analysis and Calorimetry, 1-31, 2025 | 2025 | Cited: 1

34. **Design and optimization of an off-grid power plant in the Mesopotamian Marshes of Iraq**
Discover Sustainability 6 (1), 739, 2025 | 2025

35. **ENHANCING ENERGY EFFICIENCY OF INDUSTRIAL BOILER APPLICATION BY THE INTEGRATION OF GROUND-SOURCE HEAT PUMPS AND PHOTOVOLTAIC-THERMAL SOLAR WATER COLLECTORS**
Case Studies in Thermal Engineering, 106550, 2025 | 2025

36. **Machine learning in heat exchanger modeling: Recent trends and innovations**
International Communications in Heat and Mass Transfer 169, 109920, 2025 | 2025 | Cited: 6

37. **A review of phase-change materials for building applications: innovations, assessments, and design implications**
Energy and Buildings, 116573, 2025 | 2025 | Cited: 10

38. **Effect of Heated Wall Corrugation on Thermal Performance in an L-Shaped Vented Cavity Crossed by Metal Foam Saturated with Copper–Water Nanofluid**
Computation 13 (9), 218, 2025 | 2025 | Cited: 2

39. **Effects of staggered transverse zigzag baffles and Al2O3–Cu hybrid nanofluid flow in a channel on thermofluid flow characteristics**
Open Engineering 15 (1), 20250130, 2025 | 2025 | Cited: 2

40. **Entropy generation due to MHD natural convection in a square enclosure with heater corners saturated porous medium using Cu/water nanofluid containing insulated obstacle**
Journal of the Brazilian Society of Mechanical Sciences and Engineering 47 ..., 2025 | 2025 | Cited: 5

41. **Optimizing engineering design problems using adaptive differential learning teaching-learning-based optimization: Novel approach**
Expert Systems with Applications 270, 126425, 2025 | 2025 | Cited: 5

42. **Performance optimization of D2 tool steel machining using novel multi-material cladded electrodes in electric discharge machining**
Results in Engineering 25, 103812, 2025 | 2025 | Cited: 5

43. **Influence of the typical twisted tape inserts into the inner tube of double-pipe heat exchanger: A limited review**
Results in Engineering, 104386, 2025 | 2025 | Cited: 17

44. **Harnessing solar energy with phase change materials: A review of melting point impacts**
International Communications in Heat and Mass Transfer 165, 109094, 2025 | 2025 | Cited: 38

45. **Evolution, trends, and future research directions of carbon capture, utilization and storage–A comprehensive bibliometric and systematic review**
Energy Reports 13, 5357-5374, 2025 | 2025 | Cited: 18

46. **Innovative PCM-Gypsum plasterboard technologies for smart Building envelopes: recent advances and applications**
Sustainable Energy Technologies and Assessments 82, 104470, 2025 | 2025 | Cited: 14

47. **Revolutionizing battery thermal management: hybrid nanofluids and PCM in cylindrical pack cooling**
Materials for Renewable and Sustainable Energy 14 (2), 42, 2025 | 2025 | Cited: 25

48. **A systematic review of nuclear energy and public acceptance—A detailed analysis of evolution, emerging trends, and future research potentials**
Energy Exploration & Exploitation, 01445987251339845, 2025 | 2025 | Cited: 7

49. **Smart hybrid thermal management: Bridging innovation for sustainable electric and hybrid vehicles**
International Journal of Thermal Sciences 215, 110013, 2025 | 2025 | Cited: 20

50. **Development and innovation using PCM in PV cooling systems: passive and active approaches**
Journal of Thermal Analysis and Calorimetry 150 (14), 10725-10760, 2025 | 2025 | Cited: 15

51. **Evaluation of Multi-Branch Fin Inserts for Improved Thermal Response in Latent Heat Storage Systems: A Numerical Approach**
Case Studies in Thermal Engineering, 106464, 2025 | 2025 | Cited: 7

52. **Ammonia as a hydrogen carrier: A comprehensive analysis of electrolysis efficiency and its potential in sustainable energy systems**
Renewable and Sustainable Energy Reviews 221, 115915, 2025 | 2025 | Cited: 22

53. **A comprehensive review on composite phase change materials for sustainable thermal energy solutions: Advances and barriers**
Sustainable Materials and Technologies, e01578, 2025 | 2025 | Cited: 14

54. **The solar chimney development in Iraq and Saudi Arabia—a review**
Environmental Technology Reviews 14 (1), 332-358, 2025 | 2025 | Cited: 8

55. **Development and comparative analysis between battery electric vehicles (BEV) and fuel cell electric vehicles (FCEV)**
Applied Energy 388, 125726, 2025 | 2025 | Cited: 78

56. **Advancing photovoltaic thermal (PV/T) systems: Innovative cooling technique, thermal management, and future prospects**
Solar Energy 291, 113402, 2025 | 2025 | Cited: 84

57. **Advancing organic photovoltaic cells for a sustainable future: The role of artificial intelligence (AI) and deep learning (DL) in enhancing performance and innovation**
Solar Energy 291, 113378, 2025 | 2025 | Cited: 39

58. **Review of insertion scenarios in enhancement performance of double-pipe heat exchanger: Case of cut twist tape**
Chemical Engineering and Processing-Process Intensification, 110308, 2025 | 2025 | Cited: 12

59. **Mixed convection in trapezoidal enclosures containing mono and hybrid nanofluids: a comprehensive review**
Journal of the Brazilian Society of Mechanical Sciences and Engineering 47 ..., 2025 | 2025 | Cited: 12

60. **Recent Advancements in the Remediation of Marine Hydrocarbon and Plastic Pollutants**
Environmental Hydrocarbon Pollution and Zero Waste Approach Towards a ..., 2025 | 2025 | Cited: 27

61. **Innovative pipe profile configurations for fast charging of phase change material in compact thermal storage systems for building heating applications**
Case Studies in Thermal Engineering, 106036, 2025 | 2025

62. **Advancements in combustion technologies: A review of innovations, methodologies, and practical applications**
Energy Conversion and Management: X, 100964, 2025 | 2025 | Cited: 13

63. **Current developments in the use of nanotechnology to enhance the generation of sustainable bioenergy**
Sustainable Materials and Technologies, e01266, 2025 | 2025 | Cited: 9

64. **A comprehensive review of battery thermal management systems for electric vehicles: Enhancing performance, sustainability, and future trends**
International Journal of Hydrogen Energy 97, 1077-1107, 2025 | 2025 | Cited: 78

65. **Current developments, utilization, and effects of phase-change materials integrated with solar chimney: A comprehensive review**
Journal of Energy Storage 105, 114684, 2025 | 2025 | Cited: 26

66. **Investigating the impact of fin configuration on phase change material melting in square cells: A numerical study**
Journal of Energy Storage 105, 114680, 2025 | 2025 | Cited: 14

67. **Performance enhancement of a single slope solar still using wick materials: A comparative experimental investigation with energy, exergy, and economic analysis**
Scientific African, e02733, 2025 | 2025 | Cited: 23

68. **Review of recent designs, performance, and configurations for the pyramid solar still**
International Journal of Energy and Water Resources 9 (2), 1145-1176, 2025 | 2025 | Cited: 17

69. **Accelerated discharging kinetics in zigzag-shaped triplex-tube latent heat storage with nano-modified phase change materials additives**
Case Studies in Thermal Engineering 70, 106140, 2025 | 2025 | Cited: 12

70. **Innovative pipe profile configurations for fast charging of phase change material in compact thermal storage systems for building heating applications**
Case Studies in Thermal Engineering 69, 106036, 2025 | 2025 | Cited: 10

71. **The role of nanotechnology and artificial intelligence in optimizing thermal energy systems**
Applied Energy 400, 126576, 2025 | 2025 | Cited: 10

72. **Smart buildings using compact heat pipes with nanofluid in PCM for energy saving via deep clustering of multi-agent**
Journal of Building Engineering, 113771, 2025 | 2025 | Cited: 7

73. **Dynamic Predicted Mean Vote/Predicted Percentage of Dissatisfied Prediction Using Lagrangian-Driven Deep Clustering and Reinforcement Learning for HVAC Energy Optimization**
ASME Journal of Engineering for Sustainable Buildings and Cities 6 (4), 041002, 2025 | 2025 | Cited: 2

74. **Boosting energy storage and recovery in shell-and-multitube latent heat storage systems through sunburst-distributed radial fins**
International Communications in Heat and Mass Transfer 167, 109360, 2025 | 2025 | Cited: 5

75. **Dynamic PMV/PPD prediction using Lagrangian-driven deep clustering and reinforcement learning for HVAC energy optimization**
ASME Journal of Engineering for Sustainable Buildings and Cities, 1-15, 2025 | 2025 | Cited: 3

76. **Flattening power curves in smart buildings: Deep reinforcement learning for enhancing chiller performance and binary phase change materials**
Journal of Energy Storage 140, 119163, 2025 | 2025 | Cited: 4

77. **Intensification of double-tube heat exchangers performance by modified twisted tapes: review perforated and dimpled/baffled twisted tape techniques: SA Kadhim et al.**
Journal of Thermal Analysis and Calorimetry, 1-28, 2025 | 2025

78. **Nanofillers in Energy**
Handbook of Nanofillers, 2805-2820, 2025 | 2025

79. **Maximizing charging/discharging capabilities of horizontal shell-and-tube latent heat storage systems with innovative curved fin inserts**
International Journal of Heat and Mass Transfer 236, 126289, 2025 | 2025 | Cited: 75

80. **Trends and determinates of hydrogen energy acceptance, or adoption research: A review of two decades of research**
Sustainable Energy Technologies and Assessments 73, 104159, 2025 | 2025 | Cited: 31

81. **Cooling lithium-ion batteries with silicon dioxide-water nanofluid: CFD analysis**
Renewable and Sustainable Energy Reviews 208, 115007, 2025 | 2025 | Cited: 33

82. **Performance improvement of phase change material (PCM)-based shell-and-tube-type latent heat energy storage system utilizing curved fins**
Journal of Thermal Analysis and Calorimetry, 1-15, 2024 | 2024 | Cited: 5

83. **Year-round performance evaluation of photovoltaic-thermal collector with nano-modified phase-change material for building application in an arid desert climate zone**
Energy and Buildings 320, 114597, 2024 | 2024 | Cited: 26

84. **Accelerated melting dynamics in latent-heat storage systems via longitudinal and circular fins: A comprehensive 3D analysis**
International Communications in Heat and Mass Transfer 156, 107602, 2024 | 2024 | Cited: 23

85. **PM2. 5 concentration forecasting: Development of integrated multivariate variational mode decomposition with kernel Ridge regression and weighted mean of vectors optimization**
Atmospheric Pollution Research 15 (6), 102125, 2024 | 2024 | Cited: 19

86. **Experimental Studies on the Use of Nanofluid and Glass Cover Cooling on the Performance of Hemispherical Solar Still: Energy and Exergy Approach**
Iran. J. Chem. Chem. Eng.(IJCCE) Research Article Vol 43 (4), 2024 | 2024 | Cited: 6

87. **Evaluation of wavy wall configurations for accelerated heat recovery in triplex-tube energy storage units for building heating applications**
Journal of Building Engineering 94, 109762, 2024 | 2024 | Cited: 35

88. **Unsteady MHD hybrid nanofluid mixed convection heat transfer in a wavy porous cavity with thermal radiation**
Journal of Thermal Analysis and Calorimetry 149 (5), 2425-2442, 2024 | 2024 | Cited: 19

89. **Heavy metals prediction in coastal marine sediments using hybridized machine learning models with metaheuristic optimization algorithm**
Chemosphere 352, 141329, 2024 | 2024 | Cited: 24

90. **Hydrogen energy systems: Technologies, trends, and future prospects**
Science of The Total Environment, 173622, 2024 | 2024 | Cited: 92

91. **Revolutionizing the latent heat storage: Boosting discharge performance with innovative undulated phase change material containers in a vertical shell-and-tube system**
Journal of Computational Design and Engineering 11 (2), 122-145, 2024 | 2024 | Cited: 72

92. **A critical review on the efficient cooling strategy of batteries of electric vehicles: Advances, challenges, future perspectives**
Renewable and Sustainable Energy Reviews 203, 114732, 2024 | 2024 | Cited: 104

93. **A review on recent advances on improving fuel economy and performance of a fuel cell hybrid electric vehicle**
International Journal of Hydrogen Energy 89, 22-47, 2024 | 2024 | Cited: 132

94. **Heat transfer enhancement of phase change materials using letters-shaped fins: A review**
International Communications in Heat and Mass Transfer 159, 108096, 2024 | 2024 | Cited: 93

95. **Design and optimization of a household photovoltaic/thermal collector with serpentine tube: energy and exergy analysis**
Applied Thermal Engineering 246, 122983, 2024 | 2024 | Cited: 32

96. **Deep clustering of reinforcement learning based on the bang-bang principle to optimize the energy in multi-boiler for intelligent buildings**
Applied Energy 356, 122357, 2024 | 2024 | Cited: 21

97. **A critical review on phase change materials (PCM) based heat exchanger: Different hybrid techniques for the enhancement**
Journal of Energy Storage 79, 109840, 2024 | 2024 | Cited: 243

98. **Revolutionizing latent heat storage: boosting discharge performance with innovative undulated PCM container shapes in vertical shell-and-tube systems**
Journal of Computational Design and Engineering, qwae020, 2024 | 2024 | Cited: 3

99. **Data driven insights for parabolic trough solar collectors: Artificial intelligence-based energy and exergy performance analysis**
Journal of Cleaner Production 443, 141069, 2024 | 2024 | Cited: 24

100. **Innovative arrangement of circular angled fins for maximizing the discharge performance of triple-tube heat storage systems**
International Journal of Low-Carbon Technologies 19, 938-951, 2024 | 2024

101. **Experimental and theoretical analysis of the solar adsorption refrigeration system under south Iraq climate condition**
Journal of Building Engineering, 109226, 2024 | 2024

102. **PM2. 5 concentration forecasting: Development of integrated multivariate variational mode decomposition with kernel Ridge regression and weighted mean of vectors optimization**
Atmospheric Pollution Research, 102125, 2024 | 2024

103. **Design and optimization of a household photovoltaic/thermal collector with serpentine tube: Energy and exergy analysis**
Applied Thermal Engineering, 122983, 2024 | 2024

104. **Hybrid Nanofluid Unsteady MHD Natural Convection in an Inclined Wavy Porous Enclosure with Radiation Effect, Partial Heater and Heat Generation/Absorption**
Iranian Journal of Science and Technology, Transactions of Mechanical ..., 2024 | 2024 | Cited: 13

105. **Experimental evaluation of thermal efficiency, electrical efficiency, and power production of low-concentrating photovoltaic-thermal system with micro-jet channel**
Applied Thermal Engineering 236, 121526, 2024 | 2024 | Cited: 31

106. **The potential of arch-shaped fins for energy-charge enhancement in triplex-tube heat storage: Comparative analysis and optimization**
Journal of Energy Storage 79, 110188, 2024 | 2024 | Cited: 30

107. **Unsteady MHD hybrid nanofluid mixed convection heat transfer in a wavy porous cavity with thermal radiation**
Journal of Thermal Analysis and Calorimetry, 1-18, 2024 | 2024

108. **Corrigendum to "The potential of arch-shaped fins for energy-charge enhancement in triplex-tube heat storage: Comparative analysis and optimization"[Volume 79 (2024) 110188]**
Journal of Energy Storage 82, 110524, 2024 | 2024

109. **Heat transfer and fluid flow characteristics over a backward-facing step (BFS) containing square-rectangular ribs integrated as forward-facing steps (FFS)**
Journal of Thermal Analysis and Calorimetry, 1-15, 2024 | 2024

110. **Data driven insights for parabolic trough solar collectors: Artificial intelligence-based energy and exergy performance analysis**
Journal of Cleaner Production, 141069, 2024 | 2024

111. **Experimental studies on the effect of nanofluid and glass cooling on the performance of hemispherical solar still: Energy and Exergy Approach**
Iranian Journal of Chemistry and Chemical Engineering, 2024 | 2024

112. **A review of design parameters, advancement, challenges, and mathematical modeling of asphalt solar collectors**
Journal of Thermal Analysis and Calorimetry 149 (1), 41-61, 2024 | 2024 | Cited: 23

113. **Heavy metals prediction in coastal marine sediments using hybridized machine learning models with metaheuristic optimization algorithm**
Chemosphere, 141329, 2024 | 2024

114. **Review of the trends, evolution, and future research directions of green hydrogen production from wastewaters—Systematic and bibliometric approach**
Energy Conversion and Management: X, 100822, 2024 | 2024 | Cited: 22

115. **Review of recent designs, performance, and configurations for the pyramid solar still**
International Journal of Energy and Water Resources, 1-32, 2024 | 2024 | Cited: 2

116. **Analysis and comparative assessment of charging dynamics in vertical multi-channel latent heat storage system with corrugated wavy channels**
Journal of Energy Storage 90, 111903, 2024 | 2024 | Cited: 10

117. **Heat transfer and fluid flow characteristics over a backward-facing step (BFS) containing square-rectangular ribs integrated as forward-facing steps (FFS)**
Journal of Thermal Analysis and Calorimetry 149 (7), 3043-3057, 2024 | 2024 | Cited: 5

118. **Analysing fluid flow and heat transfer comparatively in flow passage systems: Evaluating thermal impacts and geometric configurations**
International Journal of Thermofluids 24, 100894, 2024 | 2024 | Cited: 12

119. **Al2O3—Cu hybrid nanofluid flow and heat transfer characteristics in the duct with various triangular rib configurations**
Journal of Thermal Analysis and Calorimetry 149 (17), 10047-10060, 2024 | 2024 | Cited: 9

120. **A review of the current situation and prospects for nanofluids to improve solar still performance**
Journal of Thermal Analysis and Calorimetry, 1-21, 2024 | 2024 | Cited: 3

121. **Innovative arrangement of circular angled fins for maximizing the discharge performance of triple-tube heat storage systems**
International Journal of Low-Carbon Technologies 19, 938-951, 2024 | 2024 | Cited: 17

122. **Computational analysis of turbulent flow characteristics in nanofluids containing 1-D and 2-D carbon nanomaterials: grid optimization and performance evaluation**
Engineering Applications of Computational Fluid Mechanics 18 (1), 2396058, 2024 | 2024 | Cited: 1

123. **Latest Developments in Energy with Nanofillers**
Handbook of Nanofillers, 1-16, 2024 | 2024

124. **Experimental study on the performance of solar drying system by using V-corrugated Plate Absorber in the city of Baghdad/Iraq**
2024 | Cited: 5

125. **The potential of arch-shaped fins for energy-charge enhancement in triplex-tube heat storage: Comparative analysis and optimization (vol 79, 110188, 2024)**
JOURNAL OF ENERGY STORAGE 82, 2024 | 2024

126. **Correction to: Innovative arrangement of circular angled fins for maximizing the discharge performance of triple-tube heat storage systems**
International Journal of Low-Carbon Technologies 19, 1255, 2024 | 2024

127. **Performance improvement of phase change material (PCM)-based shell-and-tube-type latent heat energy storage system utilizing curved fins**
Journal of Thermal Analysis and Calorimetry 149 (23), 14241-14255, 2024 | 2024 | Cited: 22

128. **Sustainable Drilling Fluids: A Review of Nano-Additives for Improved Performance and Reduced Environmental Impact**
Processes 12 (10), 2180, 2024 | 2024 | Cited: 33

129. **Hybrid nanocomposites impact on heat transfer efficiency and pressure drop in turbulent flow systems: application of numerical and machine learning insights**
Scientific Reports 14 (1), 19882, 2024 | 2024 | Cited: 11

130. **Experimental and theoretical analysis of the solar adsorption refrigeration system under south Iraq climate condition**
Journal of Building Engineering 89, 109226, 2024 | 2024 | Cited: 9

131. **Hydrogen energy systems: Technologies, trends, and future prospects**
Science of The Total Environment 939, 173622, 2024 | 2024 | Cited: 513

132. **A review of the current situation and prospects for nanofluids to improve solar still performance**
Journal of Thermal Analysis and Calorimetry 149 (23), 13511-13531, 2024 | 2024 | Cited: 30

133. **Effects of SiO2 Nanoparticle Sizes and Concentrations on Enhancing Heat Transfer in Concentrated Solar Collectors: A CFD Simulation**
Terra Joule Journal 1 (2), 2, 2024 | 2024 | Cited: 4

134. **Terra Joule Journa l**
Terra 1 (2), 2024 | 2024

135. **Analysis of heat transfer characteristics and blood flow through artery with different diameters**
2ND INTERNATIONAL CONFERENCE ON ENGINEERING AND ADVANCED TECHNOLOGY:(ICEAT ..., 2023 | 2023

136. **Discharge performance assessment of a vertical double-pipe latent heat storage unit equipped with circular Y-shaped fins**
Journal of Building Engineering 75, 106870, 2023 | 2023 | Cited: 66

137. **Machine learning modeling of reversible thermochemical reactions applicable in energy storage systems**
Journal of the Taiwan Institute of Chemical Engineers 148, 104926, 2023 | 2023 | Cited: 18

138. **Experimental Study on Improving the Thermal Efficiency Using Fin Array with Different Slant Angles in the Finned Plate Solar Air Heater FPSAH**
International Journal of Thermophysics 44 (5), 71, 2023 | 2023 | Cited: 25

139. **Revolutionizing Latent Heat Storage: Boosting Discharge Performance with Innovative Undulated PCM Container Shapes in Vertical Shell-and-Tube Systems**
Journal of Computational Design and Engineering, 2023 | 2023 | Cited: 2

140. **A review of design parameters, advancement, challenges, and mathematical modeling of asphalt solar collectors**
Journal of Thermal Analysis and Calorimetry, 1-21, 2023 | 2023

141. **CFD simulation of effect spacing between lithium-ion batteries by using flow air inside the cooling pack**
Journal of Energy Storage 72, 108631, 2023 | 2023 | Cited: 66

142. **Geometry modification of a vertical shell-and-tube latent heat thermal energy storage system using a framed structure with different undulated shapes for the phase change ...**
Journal of Energy Storage 72, 108365, 2023 | 2023 | Cited: 84

143. **Navier-Stokes Equations and High-Resolutions: Advancements in Accurate Incompressible Flow Simulations**
Knowledge-Based Engineering and Sciences 4 (2), 51-59, 2023 | 2023 | Cited: 4

144. **Analysis of heat transfer characteristics and blood flow through artery with different diameters**
AIP Conference Proceedings 2787 (1), 2023 | 2023

145. **Experimental investigation of a novel heat exchanger for optimizing heat transfer performance using Al2O3-water nanofluids**
Heat and Mass Transfer, 1-12, 2023 | 2023

146. **Experimental investigation of a novel heat exchanger for optimizing heat transfer performance using Al2O3-water nanofluids**
Heat and Mass Transfer 59 (9), 1635-1646, 2023 | 2023 | Cited: 7

147. **Evaluation of the solidification process in a double-tube latent heat storage unit equipped with circular fins with optimum fin spacing**
Energy Science & Engineering 11 (7), 2552-2570, 2023 | 2023 | Cited: 66

148. **Numerical investigation on cooling cylindrical lithium-ion-battery by using different types of nanofluids in an innovative cooling system**
Case Studies in Thermal Engineering 49, 103097, 2023 | 2023 | Cited: 61

149. **Predicting thermophysical properties enhancement of metal-based phase change materials using various machine learning algorithms**
Journal of the Taiwan Institute of Chemical Engineers 148, 104934, 2023 | 2023 | Cited: 27

150. **Numerical Simulation on Heat Transfer Augmentation by Using Innovative Hybrid Ribs in a Forward-Facing Contracting Channel**
Symmetry 15 (3), 690, 2023 | 2023 | Cited: 22

151. **Comprehensive analysis of melting enhancement by circular Y-shaped fins in a vertical shell-and-tube heat storage system**
Engineering Applications of Computational Fluid Mechanics 17 (1), 2227682, 2023 | 2023 | Cited: 3

152. **Evaluation of the solidification process in a double-tube latent heat storage unit equipped with circular fins with optimum fin spacing**
Energy Science & Engineering, 2023 | 2023 | Cited: 7

153. **Comprehensive analysis of melting enhancement by circular Y-shaped fins in a vertical shell-and-tube heat storage system**
Engineering applications of computational fluid mechanics 17 (1), 2227682, 2023 | 2023 | Cited: 67

154. **Machine learning modeling of reversible thermochemical reactions applicable in energy storage systems**
Journal of the Taiwan Institute of Chemical Engineers, 104926, 2023 | 2023 | Cited: 4

155. **Discharge performance assessment of a vertical double-pipe latent heat storage unit equipped with circular Y-shaped fins**
Journal of Building Engineering, 106870, 2023 | 2023 | Cited: 9

156. **Crude oil production prediction based on an intelligent hybrid modelling structure generated by using the clustering algorithm in big data**
Geoenergy Science and Engineering 225, 211703, 2023 | 2023 | Cited: 8

157. **Predicting thermophysical properties enhancement of metal-based phase change materials using various machine learning algorithms**
Journal of the Taiwan Institute of Chemical Engineers, 104934, 2023 | 2023 | Cited: 2

158. **Comparative study on heat transfer improvement of nanofluids flow in forward-facing reducing channel with and without novel hybrid ribs**
International Journal of Thermal Sciences 193, 108543, 2023 | 2023 | Cited: 10

159. **Thermal performance assessment for an array of cylindrical Lithium-Ion battery cells using an Air-Cooling system**
Applied Energy 346, 121354, 2023 | 2023 | Cited: 152

160. **A novel air-cooled Li-ion battery (LIB) array thermal management system—a numerical analysis**
International Journal of Thermal Sciences 190, 108327, 2023 | 2023 | Cited: 95

161. **Numerical simulation on heat transfer augmentation by using innovative hybrid ribs in a forward-facing contracting channel**
Symmetry 15 (3), 690, 2023 | 2023 | Cited: 4

162. **Numerical investigation on cooling cylindrical lithium-ion-battery by using different types of nanofluids in an innovative cooling system**
Case Studies in Thermal Engineering, 103097, 2023 | 2023 | Cited: 9

163. **Efficient Cooling System for Lithium-Ion Battery Cells by Using Different Concentrations of Nanoparticles of SiO2-Water: A Numerical Investigation**
Symmetry 15 (3), 640, 2023 | 2023 | Cited: 43

164. **Thermal and flow performance analysis of a concentrated linear Fresnel solar collector with transverse ribs**
Frontiers in Chemistry 10, 1074581, 2023 | 2023 | Cited: 9

165. **An innovative clustering technique to generate hybrid modeling of cooling coils for energy analysis: A case study for control performance in HVAC systems**
Renewable and Sustainable Energy Reviews 166, 112676, 2022 | 2022 | Cited: 14

166. **Efficient Heat Transfer Augmentation in Channels with Semicircle Ribs and Hybrid Al2O3-Cu/Water Nanofluids**
Nanomaterials 12 (15), 2720, 2022 | 2022 | Cited: 24

167. **Application, comparative study, and multi-objective optimization of a hydrogen liquefaction system utilizing either ORC or an absorption power cycle**
International Journal of Hydrogen Energy 47 (62), 26408-26421, 2022 | 2022 | Cited: 22

168. **Experimental evaluation of the thermoelectrical performance of photovoltaic-thermal systems with a water-cooled heat sink**
Sustainability 14 (16), 10231, 2022 | 2022 | Cited: 47

169. **Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization**
Knowledge-Based Systems 250, 109048, 2022 | 2022 | Cited: 36

170. **Development and transient performance analysis of a decentralized grid-connected smart energy system based on hybrid solar-geothermal resources; Techno-economic evaluation**
Sustainable Cities and Society 76, 103425, 2022 | 2022 | Cited: 53

171. **Exergy, exergoeconomic and multi-objective optimization of a clean hydrogen and electricity production using geothermal-driven energy systems**
International Journal of Hydrogen Energy 47 (62), 25964-25983, 2022 | 2022 | Cited: 33

172. **Numerical Investigation of Buoyancy-driven Flow in a Crescent-shaped Enclosure.**
Jordan Journal of Mechanical & Industrial Engineering 16 (4), 2022 | 2022 | Cited: 4

173. **Dynamics analysis of a novel hybrid deep clustering for unsupervised learning by reinforcement of multi-agent to energy saving in intelligent buildings**
Applied Energy 313, 118863, 2022 | 2022 | Cited: 52

174. **Comprehensive review on solar stills—Latest developments and overview**
Sustainability 14 (16), 10136, 2022 | 2022 | Cited: 76

175. **Inverted solar stills: A comprehensive review of designs, mathematical models, performance, and modern combinations**
Sustainability 14 (21), 13766, 2022 | 2022 | Cited: 40

176. **Techno-economic analysis of wind turbines powering rural of Malaysia**
International Journal of Renewable Energy Development 11 (2), 413-421, 2022 | 2022 | Cited: 7

177. **Evaluation study the size and function of mechanical heart valve replacement operations in Al Nasiriyah Heart Center. Revis Bionatura 2023; 8 (2) 50**
s Note: Bionatura stays neutral with regard to jurisdictional claims in ..., 2022 | 2022 | Cited: 1

178. **Techno-economic analysis of wind turbines powering rural of Malaysia**
International Journal of Renewable Energy Development 11 (2), 413, 2022 | 2022 | Cited: 3

179. **Enhanced Prosthetic Myoelectric Affordable Hand Design of an 1-Open-Source**
2022 IEEE Delhi Section Conference (DELCON), 1-8, 2022 | 2022 | Cited: 4

180. **Determining of reservoir fluids properties using PVTP simulation software-a case study of buzurgan oilfield**
E3S Web of Conferences 321, 2021 | 2021 | Cited: 1

181. **3D Numerical simulation of turbulent heat transfer and Fe3O4/nanofluid annular flow in sudden enlargement**
E3S Web of Conferences 321, 2021 | 2021

182. **Hemodynamic changes after repairing congenital valvular heart disease. Revis Bionatura 2023; 8 (2) 48**
Thorac Cardiovasc Surg 162 (4), 1179-1189, 2021 | 2021

183. **Numerical Study of Blood Flow Through Artificial Heart Valves**
IOP Conference Series: Materials Science and Engineering 1094 (1), 012120, 2021 | 2021

184. **Measuring Device for the Capacity of HVAC Systems by Giving the Building Specifications**
2021

185. **3D Numerical simulation of turbulent heat transfer and Fe3O4/nanofluid annular flow in sudden enlargement**
E3S Web of Conferences 321, 04014, 2021 | 2021

186. **Determining of reservoir fluids properties using PVTP simulation software-a case study of buzurgan oilfield**
E3S Web of Conferences 321, 01018, 2021 | 2021 | Cited: 6

187. **A novel hybrid biomass-solar driven triple combined power cycle integrated with hydrogen production: Multi-objective optimization based on power cost and CO2 emission**
Energy Conversion and Management 234, 113910, 2021 | 2021 | Cited: 105

188. **Seasonal design and multi-objective optimization of a novel biogas-fueled cogeneration application**
International Journal of Hydrogen Energy 46 (42), 21822-21843, 2021 | 2021 | Cited: 96

189. **Effect of working fluids in a novel geothermal-based integration of organic-flash and power/cooling generation cycles with hydrogen and freshwater production units**
International Journal of Hydrogen Energy 46 (56), 28370-28386, 2021 | 2021 | Cited: 56

190. **Exergetic and economic assessments and multi-objective optimization of a modified solar-powered CCHP system with thermal energy storage**
Journal of Building Engineering 43, 102702, 2021 | 2021 | Cited: 74

191. **MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian motion and thermophoresis for nanoparticles distribution**
Case Studies in Thermal Engineering 28, 101394, 2021 | 2021 | Cited: 39

192. **Feasibility investigation of a novel geothermal-based integrated energy conversion system: Modified specific exergy costing (M-SPECO) method and optimization**
Renewable Energy 180, 1124-1147, 2021 | 2021 | Cited: 30

193. **Thermodynamic and economic assessments and multi-criteria optimization of a novel poly-generation plant using geothermal energy and multi heat recovery technique**
International Journal of Hydrogen Energy 46 (55), 27851-27873, 2021 | 2021 | Cited: 87

194. **Feasibility analysis and capability characterization of a novel hybrid flash-binary geothermal power plant and trigeneration system through a case study**
International Journal of Hydrogen Energy 46 (52), 26241-26262, 2021 | 2021 | Cited: 60

195. **Hybrid Al2O3-Cu/water nanofluid flow and heat transfer over vertical double forward-facing step**
Thermal science 25 (5 Part A), 3517-3529, 2021 | 2021 | Cited: 18

196. **Heating a cold semi-annulus wall by MHD natural convetion with nanofluid**
Case Studies in Thermal Engineering 28, 101569, 2021 | 2021 | Cited: 10

197. **Observation the melting process of the phase change material inside a half-cylindrical with thermal non-equilibrium porous media: CFD simulation**
Case Studies in Thermal Engineering 28, 101496, 2021 | 2021 | Cited: 24

198. **Augmentation of heat transfer and Al2O3-nanofluid flow over vertical double forward-facing step (DFFS)**
Int Rev Model Simul 14, 194-203, 2021 | 2021 | Cited: 16

199. **Proposal and thermo-economic optimization of using LNG cold exergy for compressor inlet cooling in an integrated biomass fueled triple combined power cycle**
International Journal of Hydrogen Energy 46 (29), 15351-15366, 2021 | 2021 | Cited: 50

200. **Exergetic and financial parametric analyses and multi-objective optimization of a novel geothermal-driven cogeneration plant; adopting a modified dual binary technique**
Sustainable Energy Technologies and Assessments 48, 101442, 2021 | 2021 | Cited: 9

201. **Environmental studies for various simple and hybrid solar still configurations: A comprehensive review**
Journal of Thermal Engineering 10 (6), 1698-1714, 2021 | 2021 | Cited: 13

202. **Hajar Alias, AlibekIssakhov, Mahidzal Dahari, Makatar Wae-hayee and Mohamed Hechmi El Ouni." MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian ...**
Case Studies in Thermal Engineering 28, 1-12, 2021 | 2021 | Cited: 3

203. **Numerical Study of Blood Flow Through Artificial Heart Valves**
IOP Conference Series: Materials Science and Engineering 1094 (1), 012120, 2021 | 2021

204. **Hajar Alias, Alibek Issakhov, Mahidzal Dahari, Makatar Wae-hayee, Mohamed Hechmi El Ouni, MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian motion ...**
Case Studies in Thermal Engineering 28, 101394, 2021 | 2021 | Cited: 4

205. **Turbulent heat transfer and nanofluid flow in an annular cylinder with sudden reduction: T. Abdulrazzaq et al.**
Journal of Thermal Analysis and Calorimetry 141 (1), 373-385, 2020 | 2020 | Cited: 42

206. **Turbulent heat transfer and nanofluid flow in an annular cylinder with sudden reduction.**
Journal of Thermal Analysis & Calorimetry 141 (1), 2020 | 2020 | Cited: 42

207. **Effect of flow separation of TiO2 nanofluid on heat transfer in the annular space of two concentric cylinders**
Thermal Science 24 (2 Part A), 1007-1018, 2020 | 2020 | Cited: 19

208. **Thermohydraulics of the liquid films in rotating heat pipes**
International Journal of Numerical Methods for Heat & Fluid Flow 30 (6 ..., 2020 | 2020 | Cited: 17

209. **Heat transfer improvement in a double backward-facing expanding channel using different working fluids**
Symmetry 12 (7), 1088, 2020 | 2020 | Cited: 47

210. **Turbulent heat transfer and nanofluid flow in an annular cylinder with sudden reduction**
Journal of Thermal Analysis and Calorimetry 141, 373-385, 2020 | 2020 | Cited: 42

211. **A novel hybrid modelling structure fabricated by using Takagi-Sugeno fuzzy to forecast HVAC systems energy demand in real-time for Basra city**
Sustainable Cities and Society 56, 102091, 2020 | 2020 | Cited: 66

212. **Effect of flow separation of TiO2 nanofluid on heat transfer in the annular space of two concentric cylinders**
Thermal science 24 (2 Part A), 1007-1018, 2020 | 2020 | Cited: 24

213. **Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation**
Journal of Thermal Analysis and Calorimetry 135 (3), 1643-1654, 2019 | 2019 | Cited: 187

214. **The Effect of Solar Chimney Dimensions on its Performance in Nasiriya City Weather Conditions**
International Journal of Engineering & Technology 8 (1.5)), 419-424, 2019 | 2019

215. **An Improved Heat Exchanger**
MY Patent PT/5117/UM/14, 2019 | 2019

216. **Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation**
Journal of Thermal Analysis and Calorimetry 135, 1643-1654, 2019 | 2019 | Cited: 146

217. **Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation.**
Journal of Thermal Analysis and Calorimetry 135 (3), 1643-1655, 2019 | 2019 | Cited: 187

218. **Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation.**
Journal of Thermal Analysis & Calorimetry 135 (3), 2019 | 2019 | Cited: 187

219. **Turbulent heat transfer to separation nanofluid flow in annular concentric pipe**
International Journal of Thermal Sciences 117, 14-25, 2017 | 2017 | Cited: 30

220. **Turbulent Heat Transfer and Nanofluid Flow in a Pipe with Half Circle Ribs**
WSEAS Trans. Heat Mass Transf 12, 136-143, 2017 | 2017 | Cited: 4

221. **Effect of laminar separation flow and nanofluids on heat transfer augmentation with passive techniques: A review**
International Communications in Heat and Mass Transfer 77, 9-14, 2016 | 2016 | Cited: 12

222. **Augmented of turbulent heat transfer in an annular pipe with abrupt expansion**
Thermal Science 20 (5), 1621-1632, 2016 | 2016 | Cited: 10

223. **Heat transfer performance of closed conduit turbulent flow: Constant mean velocity and temperature do matter!**
Journal of the Taiwan Institute of Chemical Engineers 64, 285-298, 2016 | 2016 | Cited: 18

224. **Numerical simulation of heat transfer and separation Al2O3/nanofluid flow in concentric annular pipe**
International Communications in Heat and Mass Transfer 71, 108-117, 2016 | 2016 | Cited: 57

225. **Laminar CuO–water nano-fluid flow and heat transfer in a backward-facing step with and without obstacle**
Applied Nanoscience 6 (3), 371-378, 2016 | 2016 | Cited: 41

226. **An experimental and numerical investigation of heat transfer enhancement for graphene nanoplatelets nanofluids in turbulent flow conditions**
International Journal of Heat and Mass Transfer 81, 41-51, 2015 | 2015 | Cited: 165

227. **Thermal performance of nanofluid in ducts with double forward-facing steps**
Journal of the Taiwan Institute of Chemical Engineers 47, 28-42, 2015 | 2015 | Cited: 97

228. **Heat Transfer and Nanofluid Flow Through Different Geometries**
Heat Transfer Studies and Applications, 2015 | 2015

229. **Experimental and numerical study of heat transfer to nanofluid flow in sudden enlargement of annular concentric pipe/Hussein Togun Abdullah**
University of Malaya, 2015 | 2015

230. **Experimental and Numerical Study of Heat Transfer to Nanofluid Flow in Sudden Enlargement of Annular Concentric Pipe**
PQDT-Global, 2015 | 2015

231. **Experimental and numerical study of heat transfer to nanofluid flow in sudden enlargement of annular concentric pipe/Hussein Togun Abdullah**
2015

232. **Heat Transfer and Nanofluid Flow Through Different**
Heat Transfer: Studies and Applications, 295, 2015 | 2015

233. **An experimental study on thermal conductivity and viscosity of nanofluids containing carbon nanotubes**
Nanoscale research letters 9 (1), 151, 2014 | 2014 | Cited: 351

234. **Preparation, characterization, viscosity, and thermal conductivity of nitrogen-doped graphene aqueous nanofluids**
Journal of materials science 49 (20), 7156-7171, 2014 | 2014 | Cited: 172

235. **Heat transfer and turbulent fluid flow over vertical double forward-facing step**
World Acad. Sci. Eng. Technol 8, 722-726, 2014 | 2014 | Cited: 15

236. **A review of studies on forced, natural and mixed heat transfer to fluid and nanofluid flow in an annular passage**
Renewable and Sustainable Energy Reviews 39, 835-856, 2014 | 2014 | Cited: 78

237. **An experimental study on thermal conductivity and viscosity of nanofluids containing carbon nanotubes**
Nanoscale research letters 9, 1-16, 2014 | 2014 | Cited: 321

238. **Investigation of heat transfer enhancement in a forward-facing contracting channel using FMWCNT nanofluids**
Numerical Heat Transfer, Part A: Applications 66 (12), 1321-1340, 2014 | 2014 | Cited: 266

239. **Preparation, characterization, viscosity, and thermal conductivity of nitrogen-doped graphene aqueous nanofluids**
Journal of materials science 49, 7156-7171, 2014 | 2014 | Cited: 158

240. **Numerical simulation of laminar to turbulent nanofluid flow and heat transfer over a backward-facing step**
Applied Mathematics and Computation 239, 153-170, 2014 | 2014 | Cited: 170

241. **Sustainability and environmental impact of ethanol as a biofuel**
Reviews in Chemical Engineering 30 (1), 51-72, 2014 | 2014 | Cited: 39

242. **A theoretical model to predict gas permeability for slip flow through a porous medium**
Applied Thermal Engineering 70 (1), 71-76, 2014 | 2014 | Cited: 60

243. **Heat transfer and turbulent fluid flow over vertical double forward-facing step**
World Acad. Sci. Eng. Technol 86, 722-726, 2014 | 2014 | Cited: 16

244. **Numerical study of heat transfer and laminar flow over a backward facing step with and without obstacle**
International Journal of Mechanical, Aerospace, Industrial and Mechatronics ..., 2014 | 2014 | Cited: 14

245. **Numerical study of turbulent heat transfer in annular pipe with sudden contraction**
Applied mechanics and materials 465, 461-466, 2014 | 2014 | Cited: 16

246. **Heat transfer to laminar flow over a double backward-facing step**
Int. J. Mech. Ind. Sci. Eng 7, 673-678, 2013 | 2013 | Cited: 25

247. **Numerical study of turbulent heat transfer in separated flow: review**
Int. Rev. Mech. Eng 7, 337-349, 2013 | 2013 | Cited: 22

248. **Numerical simulation on heat transfer enhancement in channel by triangular ribs**
Proc. World Acad. Sci. Eng. Technol 80, 434-438, 2013 | 2013 | Cited: 15

249. **A CFD study of turbulent heat transfer and fluid flow through the channel with semicircle rib**
2013 IEEE Conference on Clean Energy and Technology (CEAT), 312-316, 2013 | 2013 | Cited: 3

250. **CFD simulation of heat transfer and turbulent fluid flow over a double forward-facing step**
Mathematical Problems in Engineering 2013, 2013 | 2013 | Cited: 41

251. **A 3D numerical study of heat transfer in a single-phase micro-channel heat sink using graphene, aluminum and silicon as substrates**
International Communications in Heat and Mass Transfer 48, 108-115, 2013 | 2013 | Cited: 56

252. **Computational simulation of heat transfer to separation fluid flow in an annular passage**
International communications in heat and mass transfer 46, 92-96, 2013 | 2013 | Cited: 43

253. **Heat transfer to laminar flow over a double backward-facing step**
Int. J. Mech. Aerosp. Manuf. Ind. Sci. Eng. World Acad. Sci. Eng. Technol 80 ..., 2013 | 2013 | Cited: 27

254. **CFD Simulation of Heat Transfer and Turbulent Fluid Flow over a Double Forward-Facing Step**
Mathematical Problems in Engineering 2013 (1), 895374, 2013 | 2013 | Cited: 47

255. **Heat transfer enhancement of laminar fluid flow in separated region using nanofluid: A Review**
2nd International Conference on Mechanical, Automotive and Aerospace ..., 2013 | 2013

256. **Numerical study of nanofluid heat transfer performance in closed conduit turbulent flow**
2nd International Conference on Mechanical, Automotive and Aerospace ..., 2013 | 2013

257. **Guidelines for Implementing Total Quality Management in Higher Education Organization**
First Management and Engineering Congress (MECON) /Singapore, 2013 | 2013

258. **Research Article CFD Simulation of Heat Transfer and Turbulent Fluid Flow over a Double Forward-Facing Step**
2013

259. **Numerical study of turbulent heat transfer in separated flow**
Int Rev Mech Eng 7 (2), 337-349, 2013 | 2013 | Cited: 22

260. **Numerical study of turbulent heat transfer in separated flow**
International Review of Mechanical Engineering 7 (2), 337, 2013 | 2013 | Cited: 24

261. **Numerical simulation on heat transfer enhancement in channel by triangular ribs**
International Journal of Mechanical, Aerospace, Industrial and Mechatronics ..., 2013 | 2013 | Cited: 15

262. **A computational simulation of heat transfer to separation air flow in a concentric pipe**
Universiti Malaysia Perlis (UniMAP), 2012 | 2012

263. **Numerical simulation of heat transfer to separation air flow in an annular pipe**
International Communications in Heat and Mass Transfer 39 (8), 1176-1180, 2012 | 2012 | Cited: 55

264. **Heat Transfer to Separation Flow in Heat Exchangers**
An Overview of Heat Transfer Phenomena, 2012 | 2012 | Cited: 9

265. **A review of experimental study of turbulent heat transfer in separated flow**
Australian Journal of Basic and Applied Sciences 5 (10), 489-505, 2011 | 2011 | Cited: 45

266. **An experimental study of heat transfer to turbulent separation fluid flow in an annular passage**
International Journal of Heat and Mass Transfer 54 (4), 766-773, 2011 | 2011 | Cited: 46

267. **Effects of fiber orientations and fiber types of composite laminated plates**
Universiti Malaysia Perlis, 2009 | 2009

268. **An experimental study of turbulent heat transfer separation external in an annular passage**
Universiti Malaysia Perlis, 2009 | 2009

269. **Hajar Alias, AlibekIssakhov, Mahidzal Dahari, Makatar Wae-hayee and Mohamed Hechmi El Ouni." MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian ...**
Case Studies in Thermal Engineering 28, 1-12, 0 | 0

270. **Comprehensive environmental and economic analysis of active‐mode greenhouse solar dryers for green peas processing**
Environmental Progress & Sustainable Energy, e70400, 0 | 0

271. **Case Studies in Thermal Engineering**
0

272. **Case Studies in Thermal Engineering**
0

273. **Solar Photovoltaic Panel and Phase-Change Material: Systematic Modeling and Thermal Stress Analysis**
0

274. **Geoenergy Science and Engineering**
0

275. **Optimization of In-Cylinder Pressure Prediction in Biodiesel Engines Using Deep Neural Networks**
Available at SSRN 4979904, 0 | 0

276. **Scientific African**
0

277. **Hajar Alias, AlibekIssakhov, Mahidzal Dahari, Makatar Wae-hayee and Mohamed Hechmi El Ouni." MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian ...**
Case Studies in Thermal Engineering 28, 1-12, 0 | Cited: 2