Ahmed Kadhim Hussein

احمد كاظم حسين الحميري

Professor

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EDUCATION

(07-10-1996) بكلوريوس

Mechanical engineering

University of Babylon

(26-10-1999) ماجستير

power

University of Babylon

(04-10-2006) دكتوراه

power

Al- Mustansiriya university

RESEARCH METRICS

h-index (Scopus)	55
h-index (GS)	61
Citations (Scopus)	8365
Citations (GS)	10282
Documents (Scopus)	248
Documents (GS)	296

AWARDS

- Scientific Excellence Medal
- Science Day Prize
- Science Day Prize
- Science Day Prize
- Al-Ein University Prize of Scientific Excellence
- Al-Ein University Prize of Scientific Excellence
- Al-Ein University Prize of Scientific Excellence
- Warith Al- Anbiyia For research excellence
- Scientific Excellence Prize
- Stanford Classification
- Whos who in the world

PROFILE

Prof.Dr. Ahmed Kadhim Hussein was born in Babylon City - Hilla - Iraq on 19 May 1974. Currently, he works as a professor in the Mechanical Engineering Department at the University of Babylon , Babylon City, Iraq. He received his Ph.D. in Mechanical Engineering from University of Al-Mustansiriya - Iraq in 2006. Meanwhile, he is a reviewer of many local and international journals and conferences. He has about fifteen yeas of teaching and reserch work experience .In addition, he is an editor of more than twenty-two international journals. Also , he is a member of many international scientific societies in Austria , Singapore , United States of America , Japan and United Arab Emirates . His research work concerns numerical modelling of various areas of heat transfer, CFD, aerodynamics, nanotechnology, clean energy and extended irreversible thermodynamics. He has also more than fifty five appreciation letters from different scientific organizations around the world .He has published about 166 papers most of them in Scopus indexed papers in many international journals and conferences. He awarded in 2018 the scientific excellence medal - First rank on Science and Technology from Ministry of Higher Education and Scientific Research – Iraq.

ACADEMIC TITLES

2017-10-21 **Professor**

GRADUATE SUPERVISION

Investigation thePerformance of Evacuated Tube Solar Collector by Using Mono and Hybrid Nano Fluids Under Babylon Climate Conditions

Nagham Yass Khudair (2023)

PUBLICATIONS (373)

1. A comprehensive review of evaporation enhancement in solar desalination: Materials, design, integration, and modeling

   International Communications in Heat and Mass Transfer 172, 110228, 2026 | 2026 | Cited: 2

2. Natural convection in U-shaped cavities with nanofluids: A comprehensive review of heat transfer mechanisms and applications

   International Communications in Heat and Mass Transfer 172, 110157, 2026 | 2026 | Cited: 1

3. Floating solar stills: A state-of-art review

   Renewable and Sustainable Energy Reviews 229, 116652, 2026 | 2026 | Cited: 1

4. 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

5. Smart Buildings Envelope Utilize Triple PCM for Offset and Reduce Peak Load Using Deep Clustering of Multi-agent Control

   Energy, 140039, 2026 | 2026

6. Correction: Ali et al. Significance of Nanoparticle Radius and Gravity Modulation on Dynamics of Nanofluid over Stretched Surface via Finite Element Simulation: The Case of ...

   Mathematics 14 (3), 484, 2026 | 2026

7. **Natural convection in wavy cavities with nanofluids: a comprehensive review**
Journal of Thermal Analysis and Calorimetry, 1-40, 2026 | 2026

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

9. **Magnetic-Field-Enhanced Solar Desalination: A Comprehensive Review of Advanced Configurations and Performance Improvements**
Heat Transfer, 2026 | 2026

10. **Significance of Nanoparticle Radius and Gravity Modulation on Dynamics of Nanofluid over Stretched Surface via Finite Element Simulation: The Case of Water-Based Copper ...**
MATHEMATICS 14 (3), 2026 | 2026

11. **Advancing renewable and sustainable energy: A regional approach**
Energy & Environment, 0958305X261428669, 2026 | 2026

12. **Numerical Analysis of Instabilities in Taylor–Couette Systems Under Constant Heat Flux**
Journal of Thermophysics and Heat Transfer 39 (4), 1000-1011, 2025 | 2025 | Cited: 1

13. **Green building evolution: enhancing energy efficiency and structural performance through innovative rice water and grey clay composite material: RZ Homod et al.**
Journal of Thermal Analysis and Calorimetry 150 (3), 1669-1689, 2025 | 2025 | Cited: 7

14. **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

15. **A review of the pathways, limitations, and perspectives of plastic waste recycling**
Materials for Renewable and Sustainable Energy 14 (3), 50, 2025 | 2025 | Cited: 14

16. **Solar Stills with Glass Cooling Techniques: A Systematic Review of Multi-method Efficiency Enhancements, Hybrid Systems, and Practical Barriers**
Water Conservation Science and Engineering 10 (3), 100, 2025 | 2025 | Cited: 3

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

18. **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: 28

19. **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: 18

20. **Advancements in combustion technologies: A review of innovations, methodologies, and practical applications**
Energy Conversion and Management: X 26, 100964, 2025 | 2025 | Cited: 17

21. **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: 16

22. **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: 3

23. **Investigation of heat and mass transfer of oldroyd–8 constant fluid in wire coating process employing response surface methodology**
Numerical Heat Transfer, Part A: Applications 86 (18), 6287-6313, 2025 | 2025

24. **Using of nanofluid for flat plate solar collector application in Iraq–A summarized review**
Journal of Solar Energy Research, 2025 | 2025

25. **Numerical and experimental investigation of an internally pinned heat exchanger with regression modeling for thermal performance prediction**
ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte ..., 2025 | 2025

26. **Experimental Study on Enhancing Water Yield in a Pyramid Solar Still Equipped with Aluminum Fins**
Arabian Journal for Science and Engineering, 1-10, 2025 | 2025 | Cited: 2

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

28. **A Review on the Performance Enhancement of Pyramid Solar Still in Iraq.**
International Journal of Heat & Technology 43 (4), 2025 | 2025 | Cited: 2

29. **A Comprehensive Review of Nusselt Number Enhancement of Natural Convection in Literal Shapes Cavities: Recent Trends and Future Challenges.**
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30. **Molten salt reactor neutronics and fuel cycle—review of advancements and potential future research directions**
Energy Exploration & Exploitation, 01445987251398017, 2025 | 2025 | Cited: 2

31. **Numerical Investigation of Flat Plate Solar Collector by Using Various Types of Mono and Hybrid Nanofluids**
International Journal of Intelligent Systems and Applications in Engineering ..., 2025 | 2025

32. **Numerical Study of Natural Convection Energy Transfer in a Grooved Cavity Using the Hybrid Lattice Boltzmann Method**
Pioneering Sustainable Innovations in Renewable Energy Technologies, 347-362, 2025 | 2025

33. **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

34. **Influence of the typical twisted tape inserts into the inner tube of double-pipe heat exchanger: A limited review**
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35. **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

36. **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: 16

37. **Composite materials in solar energy: a review**
Solar Energy 297, 113606, 2025 | 2025 | Cited: 15

38. **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: 9

39. **The solar chimney development in Iraq and Saudi Arabia—a review**
Environmental Technology Reviews 14 (1), 332-358, 2025 | 2025 | Cited: 7

40. **Thermal performance analysis of parabolic trough solar collectors equipped with elliptical absorber tubes**
Journal of Radiation Research and Applied Sciences 18 (4), 101953, 2025 | 2025 | Cited: 1

41. **Thermal radiation induced entropy generation in hybrid nanofluid convection under magnetic field in a wavy cavity with localized thermosolutal sources**
Journal of Radiation Research and Applied Sciences 18 (4), 101845, 2025 | 2025 | Cited: 2

42. **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

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

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: 28

45. **Review of trends and emerging optimization techniques for battery thermal management—Traditional and bibliometric approach**
Journal of Energy Storage 119, 116437, 2025 | 2025 | Cited: 23

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Waves in Random and Complex Media 35 (3), 5587–5614, 2025 | 2025 | Cited: 12

47. **Dynamic thermal stress analysis of PCM-glazed unit under intermittent solar irradiation**
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 47 ..., 2025 | 2025 | Cited: 12

48. **Bubble Dynamics in Sustainable Technologies: A Review of Growth, Collapse, and Heat Transfer**
Processes 13 (1), 38, 2025 | 2025 | Cited: 10

49. **Enhancing hemispherical solar stills thermal performance by using nanotechnologies—recent advances and overview**
Environmental Technology Reviews 14 (1), 127-141, 2025 | 2025 | Cited: 10

50. **A state-of-the-art review of electrolyte systems for vanadium redox flow battery—status of the technology, and future research directions**
Energy Conversion and Management: X, 101180, 2025 | 2025 | Cited: 14

51. **Significance of sinusoidal wall temperature, natural convection, nanoparticle diameter, and nanolayer in water flow subject to a vertical plate via Finite element analysis**
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53. **Double-diffusive convection of two rods in a novel cavity saturated by porous media and suspended by nano-encapsulated phase change materials**
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54. **Optimization of Heat Transfer in a Solid Torus: A Parametric and Numerical Approach Under Natural Convection**
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56. **Magento-double diffusive natural convection in a partially heated wavy porous cavity filled with a radiative hybrid nanofluid: S. Hansda et al.**
Journal of Thermal Analysis and Calorimetry 150, 10489–10512, 2025 | 2025 | Cited: 8

57. **Natural convection in a 3D trapezoidal cavity with nanofluid and internal cylinders**
Journal of Thermal Analysis and Calorimetry 150, 3777–3788, 2025 | 2025 | Cited: 4

58. **A review of the pathways, limitations, and perspectives of plastic waste recycling**
Materials for Renewable and Sustainable Energy 14 (3), 1-37, 2025 | 2025 | Cited: 2

59. **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: 4

60. **Solar Stills with Glass Cooling Techniques: A Systematic Review of Multi-method Efficiency Enhancements, Hybrid Systems, and Practical Barriers**
Water Conservation Science and Engineering 10 (3), 1-24, 2025 | 2025 | Cited: 1

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ASME Journal of Engineering for Sustainable Buildings and Cities 6 (4), 041002, 2025 | 2025 | Cited: 1

62. **Enhancing hemispherical solar still productivity with black pumice cubes: a novel approach via surface tension reduction and thermal optimization**
Separation and Purification Technology, 134824, 2025 | 2025 | Cited: 5

63. **Asymptotic stability and sampled data control of hybrid nanofluid in a time-delay nonlinear Brinkman system**
Pramana 99 (3), 115, 2025 | 2025 | Cited: 1

64. **Numerical Analysis of Instabilities in Taylor–Couette Systems Under Constant Heat Flux**
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65. **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: 2

66. **Study of the Fouling in Plate Heat Exchangers during Milk Treatment using 3D Dynamic Model**
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences 131 (2 ..., 2025 | 2025 | Cited: 1

67. **Enhancement the Performance of FPSC by Utilizing Hybrid Nanofluids-An Extended Review.**
International Journal of Heat & Technology 42 (6), 2024 | 2024 | Cited: 1

68. **Heat transportation phenomena subject to Ellis fluid over a spinning body: A dynamics of trihybrid nanoparticles**
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69. **Optimisation of time-dependent Sisko flow in a wire coating process using response surface methodology**
Pramana 98 (2), 71, 2024 | 2024 | Cited: 2

70. **Hybrid Lattice Boltzmann Method for 3D Natural Convection Combined with Volumetric Radiation**
Journal of Engineering Physics and Thermophysics 97 (3), 766-773, 2024 | 2024 | Cited: 1

71. **Enhancement of cooling process of hot blocks mounted inside a horizontal channel using flexible baffles—Alternative arrangement**
International Journal of Thermofluids 23, 100805, 2024 | 2024 | Cited: 2

72. **Hybrid weights structure model based on Lagrangian principle to handle big data challenges for identification of oil well production: A case study on the North Basra oilfield, Iraq**
Engineering Applications of Artificial Intelligence 138, 109465, 2024 | 2024 | Cited: 4

73. **Fuzzy fractional shallow water wave equations: analysis, convergence of solutions, and comparative study with depth as triangular fuzzy number**
Physica Scripta 99 (12), 125216, 2024 | 2024 | Cited: 6

74. **Investigation the Performance of an Evacuated Tube Solar Collector Filled with MWCNT/ Water Nanofluid Under the Climate Conditions of Al-Hilla (Iraq)**
Journal of Petroleum Research and Studies 14 (3), 135-154, 2024 | 2024 | Cited: 5

75. **Variable viscosity effects on dynamic of non-Newtonian fluid nanofluid over a paraboloid of revolution via Keller box method**
The European Physical Journal Plus 139 (5), 1-19, 2024 | 2024 | Cited: 10

76. **Internal Finned Heat Exchangers: Thermal and Hydraulic Performance Review.**
International Journal of Heat & Technology 42 (2), 2024 | 2024 | Cited: 8

77. **Numerical study of thermo-solutal convection of a Cu/water micropolar nanofluid in a cubic cavity saturated with porous media**
The European Physical Journal Special Topics 233, 2245–2263, 2024 | 2024 | Cited: 10

78. **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: 20

79. **Effect of different configurations of hybrid nano additives blended with biodiesel on CI engine performance and emissions**
Scientific Reports 14 (1), 19528, 2024 | 2024 | Cited: 26

80. **MHD double diffusive mixed convection and heat generation/absorption in a lid-driven inclined wavy enclosure filled with a ferrofluid**
International Journal of Thermofluids 22, 100698, 2024 | 2024 | Cited: 19

81. **A review of radiant heating and cooling systems incorporating phase change materials**
Journal of Thermal Analysis and Calorimetry 149 (15), 7891-7917, 2024 | 2024 | Cited: 19

82. **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

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

84. **Hydrogen energy systems: Technologies, trends, and future prospects**
Science of The Total Environment 939, 173622, 2024 | 2024 | Cited: 461

85. **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

86. **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

87. **Significance of dust particles volume fraction to optimization of entropy in magnetohydrodynamic mixed convection flow via inclined surface**
Journal of Molecular Liquids 394, 123706, 2024 | 2024 | Cited: 12

88. **Use of Electrolysis to Produce H2 from Natural and Modified Water**
Energy Technology 12 (1), 2300918, 2024 | 2024 | Cited: 6

89. **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

90. **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

91. **MHD mixed convection flow of alumina-water nanofluid into a lid-driven cavity with different patterns of wavy sidewalls**
Journal of Computational Applied Mechanics 55 (1), 92-112, 2024 | 2024 | Cited: 5

92. **A review of design parameters, advancement, challenges, and mathematical modeling of asphalt solar collectors**
Journal of Thermal Analysis and Calorimetry 149, 41–61, 2024 | 2024 | Cited: 22

93. **A review of the application of hybrid nanofluids in solar still energy systems and guidelines for future prospects**
Solar Energy 272, 112485, 2024 | 2024 | Cited: 103

94. **Numerical study of thermo-solutal convection of a Cu/water micropolar nanofluid in a cubic cavity saturated with porous media**
The European Physical Journal Special Topics, 1-19, 2024 | 2024

95. **A Comparative Study to Investigate the Effects of Various Shapes of Ribs on the Absorber Plate of a Solar Air Heater**
Biennial International Conference on Future Learning Aspects of Mechanical ..., 2024 | 2024

96. **Experimental Study on Thermo, Water Quality and Economic Analysis of Hemispherical Solar Still Using Different Basin Materials with and without Internal Reflector**
Iran. J. Chem. Chem. Eng.(IJCCE) Research Article Vol 43 (3), 1267-1278, 2024 | 2024

97. **NUMERICAL THERMAL ANALYSIS OF RE-ENTRY APOLLO MODEL AS-202 AT HIGH ANGLE OF ATTACK**
Journal of Engineering Science and Technology 18 (1), 693-705, 2023 | 2023 | Cited: 2

98. **A review of convective heat transfer in cavity-channel assemblies**
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99. **Applied engineering mathematics to explain the physics behind the hydrodynamics shear layer**
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100. **The effect of wider base location on the natural convection in a 3D partially heated trapezoidal cavity**
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101. **Effect of thermal radiation and magnetic field on heat transfer of SWCNT/water nanofluid inside a partially heated hexagonal cavity**
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Journal homepage: http://iieta. org/journals/mmep 10 (6), 2281-2290, 2023 | 2023

103. **Advancements and Innovations in Thermodynamics for Infant Incubators: A Review.**
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105. **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: 7

106. **Ground heat exchanger in different configuration: Review of recent advances and development**
Geoenergy Science and Engineering, 211879, 2023 | 2023 | Cited: 2

107. **Experimental investigation of spherical salt balls effect on solar distillers' thermal performance at various water depths**
International Journal of Environmental Science and Technology 20, 6685–6696, 2023 | 2023 | Cited: 15

108. **Bio-based phase change materials for thermal energy storage and release: A review**
Journal of Energy Storage 73, 109219, 2023 | 2023 | Cited: 76

109. **An Examination of Air-Bubble Injection Mechanisms for Optimising Heat Transfer in Industrial Applications**
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113. **Use of Electrolysis to Produce H2 from Natural and Modified Water**
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114. **Significance of dust particles volume fraction to optimization of entropy in magnetohydrodynamic mixed convection flow via inclined surface**
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118. **Enhancement of the performance of evacuated tube collector of solar by utilizing mono and hybrid nanofluids-An extended review**
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122. **Mixed convection in an open lid-driven cavity attached with a rectangular channel**
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123. **Significance of Darcy–Forchheimer Law, Activation Energy, and Brownian Motion of Tiny Particles on the Dynamics of Rotating MHD Micropolar Nanofluid**
Mathematics 11 (4), 866, 2023 | 2023 | Cited: 6

124. **PARAMETRIC STUDY OF SINGLE AIR BUBBLE RISING THROUGH DIFFERENT SALINITY WATER COLUMN USING VOLUME OF FLUID (VOF) TECHNIQUE**
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128. **Three-Dimensional Analysis of the Thermal Behavior of Alumina-Water Nanofluid Inside Hexagonal and Octagonal Enclosed Domain**
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129. **Opposing Mixed Convection in an Open Parallelogram Cavity with the Horizontal Channel: Effects of the Heat Source Length and Location**
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136. **Single-phase and two-phase models of a hybrid nanofluid traveling through a non-uniformly heated (PTC) receiver: A comparative study**
Journal of Thermal Engineering 9 (6), 1442-1451, 2023 | 2023 | Cited: 5

137. **Mixed convection in an open lid-driven cavity attached with a rectangular channel**
AIP Conference Proceedings 2651 (1), 050001, 2023 | 2023 | Cited: 1

138. **Melting control of phase change material of semi-cylinders inside a horizontal baffled channel: Convective laminar fluid–structure interaction**
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141. **Numerical Study of a Phase Change Material Energy Storage Tank Working with Carbon Nanotube–Water Nanofluid under Ha'il City Climatic Conditions**
Mathematics 11 (4), 1057, 2023 | 2023 | Cited: 24

142. **Significance of Nanoparticle Radius and Gravity Modulation on Dynamics of Nanofluid over Stretched Surface via Finite Element Simulation: The Case ofWater-Based Copper ...**
Mathematics 11, 1266-1280, 2023 | 2023 | Cited: 13

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