Karrar Abdahmed Hammoodi Hussain

كرارعبدأحمد حمودي حسين المنصوري

Assistant Professor

PROFILE

Karrar Abed Ahmed Hammoodi Hussain

ACADEMIC TITLES

2017-10-24 Assistant Professor

ADMINISTRATIVE POSITIONS

2022-10-01 - 2023-07-01 Department rapporteur

PUBLICATIONS (214)

1. **Recent advancements in hybrid solar dryer: A comprehensive review of integration strategies, performance enhancements, and applications**
   International Communications in Heat and Mass Transfer 171, 110042, 2026 | 2026 | Cited: 5
2. **Enhancing the Performance of a Pyramid Solar Distiller Through Magnetic Field Application: An Experimental Study**
   International Journal of Thermophysics 47 (1), 10, 2026 | 2026 | Cited: 1
3. **Experimental investigation of double pass solar air heater with sensible heat storage: Effect of sand storage unit number**
   Journal of Energy Storage 141, 119353, 2026 | 2026 | Cited: 3
4. **Advancements in thermal management of lithium-ion batteries: the role of nanofluids and phase change materials**
   Environmental Technology Reviews 15 (1), 40-75, 2026 | 2026 | Cited: 2
5. **Structural fin configurations for enhanced thermal performance of latent heat storage in building heating applications**
   International Communications in Heat and Mass Transfer 172, 110429, 2026 | 2026 | Cited: 2
6. **A novel integration of pyramidal solar distiller with electrical–magnetic effects: an experimental study**
   Journal of Thermal Analysis and Calorimetry, 1-19, 2026 | 2026
7. **Energy and Exergy Analysis of Solar Air Heaters: A Focused Review**
   Heat Transfer 55 (1), 56-79, 2026 | 2026 | Cited: 6
8. **Synergistic integration of phase change materials in solar stills for continuous and high-efficiency desalination: a comprehensive review**
   Energy Conversion and Management: X, 101548, 2026 | 2026 | Cited: 3
9. **Advances in pyramid solar stills: a comprehensive review of sustainable water desalination innovations**
   Applied Water Science, 2026 | 2026 | Cited: 3
10. **Innovations in tubular solar still design: Optical, thermal, and material enhancements for superior desalination output**
    International Communications in Heat and Mass Transfer 172, 110565, 2026 | 2026 | Cited: 5
11. **Numerical analysis of air layer effects on PCM melting in a horizontal double concentric tube**
    Discover Applied Sciences, 2026 | 2026

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EDUCATION

ماجستير (09-07-2014)
Air Conditioning and Refrigeration
University of Technology

RESEARCH METRICS

h-index (Scopus)	25
h-index (GS)	27
Citations (Scopus)	1716
Citations (GS)	2170
Documents (Scopus)	125
Documents (GS)	142

12. **A synergistic approach to material analysis and power source engineering in ultrasonic welding of polymers**
Proceedings of the Institution of Mechanical Engineers, Part B: Journal of ..., 2026 | 2026 | Cited: 1

13. **Enhancing the thermal efficiency of hemispherical solar still using waste aluminium cans filled with beeswax as thermal energy storage**
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14. **Innovative use of synthetic biodegradable polymers for sustainable dye removal from wastewater**
Environmental Progress & Sustainable Energy, e70313, 2026 | 2026

15. **Experimental 4E Assessment of a Single-Slope Solar Still Enhanced with Different Steel Fiber Configurations**
Water Conservation Science and Engineering 11 (1), 23, 2026 | 2026 | Cited: 5

16. **Experimental investigation of a vapor compression refrigeration system integrated with thermoelectric generators for enhanced energy recovery**
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17. **Numerical analysis of air layer efiects on PCM melting in a horizontal double concentric tube**
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18. **Design and manufacture of a photovoltaic thermal solar collector equipped with aluminum foam fins for enhanced electrical, thermal, and integrated performance**
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19. **Rotating-Part Solar Stills: A Review of Configurations, Mathematical Modelling, and Efficiency Analysis**
Desalination and Water Treatment, 101699, 2026 | 2026 | Cited: 3

20. **Vertical solar stills: A comprehensive review of design, performance, and deployment**
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21. **Innovative spiral fin design for convection improvement in double-coil heat exchangers: A simulation-based approach**
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22. **Thermal management strategies and material innovations for enhancing efficiency and durability in silicon photovoltaic systems**
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23. **Nano-enhanced phase-change materials for photovoltaic thermal management: Thermal mechanisms, durability challenges, and quantitative economic perspectives**
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25. **Triply periodic minimal surface heat exchanger: Innovations, mathematical modelling, and performance enhancement-a state-of-the-art review**
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28. **Impact of water depth on solar still performance: A comprehensive review of advanced materials, design innovations, and thermal management strategies**
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29. **Enhancement solar still efficiency through reflectors: a review of latest advancements and design inventions**
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30. **Detailed review of hybrid and carbon‐based nanofluids for double‐tube heat exchangers: Recent advances and performance evaluation**
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31. **Performance evaluation, simulation, and mathematical modeling of biomass–solar drying systems: a systematic review**
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32. **Coupling interactions in aeroelastic analysis of 3D aircraft wings with control surface during flight**
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36. **Experimental Investigation of a Vapor Compression Refrigeration System Integrated with Thermoelectric Generators for Enhanced Energy Recovery**
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37. **Enhancement of the heat transfer performance of a double-pipe heat exchangers in various configurations using Al_2O_3 nanofluid: a focused review**
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38. **Performance enhancement of a single slope solar still using wick materials: a comparative experimental investigation with energy, exergy, and economic analysis**
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39. **Numerical investigation of the effects of geometric and fluid parameters on the thermal performance of a double -tube spiral heat exchanger with a conical turbulator**
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42. **Influence of the typical twisted tape inserts into the inner tube of double-pipe heat exchanger: a limited review**
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60. **CFD simulation of air layer effects on RT42 PCM melting in a square cell**
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93. **Enhancing the thermal performance of different types of heat exchangers with fins: A comprehensive review**
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94. **Numerical investigation on the performance of the solar air collector using jet impingement with W-shaped arrangement**
Case Studies in Thermal Engineering 71, 106154, 2025 | 2025 | Cited: 17

95. **Numerical investigation of the effects of geometric and fluid parameters on the thermal performance of a double-tube spiral heat exchanger with a conical turbulator**
Case Studies in Thermal Engineering 65, 105613, 2025 | 2025 | Cited: 15

96. **Review of solar pond performance with PCM and NePCM**
International Communications in Heat and Mass Transfer 166, 109135, 2025 | 2025 | Cited: 21

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Environmental Progress & Sustainable Energy 43 (6), e14483, 2024 | 2024 | Cited: 20

99. **Exergy Analysis of a Solar Heating System in Indoor Spaces.**
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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 | Cited: 17

101. **Investigation of the influence of the air layer on the phase change material melting process inside a hemicylindrical enclosure: A numerical approach**
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103. **Novel multi-layer nano-modified PCM configuration for efficient thermal management of photovoltaic-thermal systems**
Journal of Energy Storage 103, 114352, 2024 | 2024 | Cited: 31

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Results in Engineering 24, 103088, 2024 | 2024 | Cited: 28

105. **Enhancing the melting rate of RT42 paraffin wax in a square cell with varied copper fin lengths and orientations: a numerical simulation**
International Journal of Thermofluids 24, 100877, 2024 | 2024 | Cited: 45

106. **Feasibility review of using copper oxide nanofluid to improve heat transfer in the double-tube heat exchanger**
Results in Engineering 24, 103227, 2024 | 2024 | Cited: 41

107. **Innovations and ongoing advancements of the wick type solar still: A review**
Results in Engineering 24, 103049, 2024 | 2024 | Cited: 42

108. **Techno-economic and life cycle analysis of two different hydrogen production processes from excavated waste under plasma gasification**
Process Safety and Environmental Protection 184, 1158-1176, 2024 | 2024 | Cited: 31

109. **Artificial neural network hyperparameters optimization for predicting the thermal conductivity of MXene/graphene nanofluids**
Journal of the Taiwan Institute of Chemical Engineers 164, 105673, 2024 | 2024 | Cited: 72

110. **Augmentation and evaluation of solar still performance: A comprehensive review**
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111. **Techno-Economic and Life Cycle Analysis of Two Different Hydrogen Production Processes from Excavated Waste under Plasma Gasification**
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112. **A technical appraisal of solar photovoltaic-integrated single slope single basin solar still for simultaneous energy and water generation**
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113. **Evaluation of the energy and exergy of a trans‐critical CO2 cycle driven by a double flash geothermal power plant**
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117. **Numerical examination of exergy performance of a hybrid solar system equipped with a sheet-and-sinusoidal tube collector: Developing a predictive function using artificial ...**
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118. **The potential of arch-shaped fins for energy-charge enhancement in triplex-tube heat storage: Comparative analysis and optimization**
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119. **Obtaining an accurate prediction model for viscosity of a new nano-lubricant containing multi-walled carbon nanotube-titanium dioxide nanoparticles with oil SAE50**
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124. **The effect of initial conditions (temperature and pressure) on combustion of Fe-coated-aluminum hydride nanoparticles using the molecular dynamics approach**
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138. **A synergistic approach to material analysis and power source engineering in ultrasonic welding of polymers**
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139. **A Numerical Study to Improve Heat Transfer in a Rectangular Cell Filled with Phase Change Materials Using Several Types of Rods**
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