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ScopusID: 7005543047

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Research Areas

Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of heat transfer limits for flow boiling in expanding heat sinks having micro pin fins**
MARKAL B., EVCİMEN A., ATCI F., AYDIN O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.156, 2024 (SCI-Expanded)
- II. **Pulsating non-Newtonian heat and fluid flow in a concentric annular duct: An analysis using perturbation series method**
ALTUNKAYA A. N., AYDIN O., AVCI M.
International Communications in Heat and Mass Transfer, vol.154, 2024 (SCI-Expanded)
- III. **Thermal cycling performance of a Shell-and-tube latent heat thermal energy storage system with paraffin/graphite matrix composite**
SAĞLAM M., Ceboglu E., BİRİNCİ S., Sarper B., AYDIN O.
Journal of Energy Storage, vol.83, 2024 (SCI-Expanded)
- IV. **A novel fabrication method for polymeric flat plate pulsating heat pipe via additive manufacturing**
CANDAN CANDERE A., Miché N., Bernagozzi M., SAĞLAM M., Georgoulas A., AYDIN O., Marengo M.
Applied Thermal Engineering, vol.241, 2024 (SCI-Expanded)
- V. **Effect of inlet temperature on flow boiling behavior of expanding micro-pin-fin type heat sinks**
Markal B., Evcimen A., Aydın O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.149, 2023 (SCI-Expanded)
- VI. **Optimizing the tube geometry to enhance thermohydraulic performance of tube bank heat exchanger**
AKTAŞ A. E., Kuru M. N., Erdinc M. T., AYDIN O., BİLGİLİ M.
International Journal of Thermal Sciences, vol.193, 2023 (SCI-Expanded)
- VII. **Comparative investigation of different types of expanding micro-pin-fin heat sinks at low mass flux**
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- VIII. **Effect of fin width ratio on thermal performance of fin based-heat sink with phase change materials**
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- IX. **Performance improvement potential of a PV/T integrated dual-source heat pump unit with a pressure booster ejector**
Tahir Erdinc M., Kutlu C., Unal S., AYDIN O., Su Y., Riffat S.
Thermal Science and Engineering Progress, vol.37, 2023 (SCI-Expanded)
- X. **The role of jet-to-crossflow velocity ratio on convective heat transfer enhancement in the cooling of discrete heating modules**
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THERMAL SCIENCE AND ENGINEERING PROGRESS, vol.37, 2023 (SCI-Expanded)
- XI. **Pulsating flow and heat transfer of power-law fluid in a circular pipe**
ALTUNKAYA A. N., AYDIN O., AVCI M.
Nonlinear Analysis: Modelling and Control, vol.28, no.1, pp.56-73, 2023 (SCI-Expanded)
- XII. **Investigation of effect of a mechanical agitator on pool boiling heat transfer**
Sahin F., Kaya A., Alic E., AYDIN O.
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- XIII. **Constructal enhancement of cooling performance of local heating elements with different heat generation rates under free and mixed convection regimes**
Sarper B., BİRİNCİ S., SAĞLAM M., AYDIN O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.135, 2022 (SCI-Expanded)
- XIV. **An optimization study on thermo-hydraulic performance arrays of circular and diamond shaped cross-sections in periodic flow**
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INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.129, 2021 (SCI-Expanded)
- XV. **Effect of double cross sectional ratio on performance characteristics of pulsating heat pipes**
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- XVI. **Investigation of flat plate type pulsating heat pipes via flow visualization-assisted experiments: Effect of cross sectional ratio**
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- XVII. **Thermal energy storage performance of PCM/graphite matrix composite in a tube-in-shell geometry**
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- XVIII. **Effect of heaters' clearance on mixed convection cooling performance in a discretely heated horizontal duct**
BİRİNCİ S., SAĞLAM M., Sarper B., AYDIN O.
International Journal of Thermal Sciences, vol.163, 2021 (SCI-Expanded)
- XIX. **Conical coaxial impinging air jets: angle effect on the heat transfer performance**
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HEAT AND MASS TRANSFER, vol.56, no.12, pp.3135-3146, 2020 (SCI-Expanded)
- XX. **Constructal design of heat sources with different heat generation rates for the hot spot mitigation**
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- XXI. **Effect of air exhaust location on surgical site particle distribution in an operating room**
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- XXII. **Evaluation of in-duct UV-C lamp array on air disinfection: A numerical analysis**
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- XXIII. **Effect of air change rate on particle dispersion from inlet opening under varying particle source strengths**
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- International Journal Of Ventilation, vol.0, pp.1-18, 2020 (SCI-Expanded)
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- XXV. **Particle dispersion and deposition in displacement ventilation systems combined with floor heating**
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- XXVI. **Influence of ventilation strategies on dispersion and removal of fine particles: An experimental and simulation study**
Cetin Y., Avci M., AYDIN O.
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- XXVII. **Flow boiling characteristics in a novel minichannel with a step on each corner**
Markal B., Candan A., Aydın O.
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- XXVIII. **Prediction of Two-Phase Heat Transfer Coefficient of Flow Boiling in Minichannels**
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- XXIX. **Combined effects of inclination angle and fin number on thermal performance of a PCM-based heat sink**
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- XXX. **Melting and solidification of PCM in a tube-in-shell unit: Effect of fin edge lengths' ratio**
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- XXXI. **Effect of hydraulic diameter on flow boiling in rectangular microchannels**
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- XXXII. **Prediction of Pressure Drop for Flow Boiling in Rectangular Multi-Microchannel Heat Sinks**
Markal B., AYDIN O., Avci M.
HEAT TRANSFER ENGINEERING, vol.40, pp.26-38, 2019 (SCI-Expanded)
- XXXIII. **Natural Convection in an Enclosure with a Pair of Discrete Heat Sources**
SAĞLAM M., Sarper B., AYDIN O.
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, vol.33, no.1, pp.234-245, 2019 (SCI-Expanded)
- XXXIV. **ENHANCING STORAGE PERFORMANCE IN A TUBE-IN SHELL STORAGE UNIT BY ATTACHING A CONDUCTING FIN TO THE BOTTOM OF THE TUBE**
AYDIN O., AVCI M., YAZICI M. Y., AKGUN M.
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- XXXV. **Constructal Placement of Discrete Heat Sources With Different Lengths in Vertical Ducts Under Natural and Mixed Convection**
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- XXXVI. **Experimental and numerical investigation of natural convection in a discretely heated vertical channel: Effect of the blockage ratio of the heat sources**
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- XXXVIII. **Experimental investigation of coaxial impinging air jets**
Markal B., AYDIN O.
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- XXXIX. **Analysis of extended micro-Graetz problem in a microtube**
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- XL. **Natural convection in a parallel-plate vertical channel with discrete heating by two flush-mounted heaters: effect of the clearance between the heaters**
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- XLIII. **Saturated flow boiling characteristics in single rectangular minichannels: effect of aspect ratio**
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- XLIV. **EXPERIMENTAL STUDY OF SINGLE-PHASE FLUID FLOW AND HEAT TRANSFER CHARACTERISTICS IN RECTANGULAR MICROCHANNELS**
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- XLV. **Effects of viscous dissipation on mixed convection in a vertical parallel-plate microchannel with asymmetric uniform wall heat fluxes: The slip regime**
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- XLVI. **Prediction of Heat Transfer Coefficient in Saturated Flow Boiling Heat Transfer in Parallel Rectangular Microchannel Heat Sinks: An Experimental Study**
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- XLVII. **An experimental investigation of saturated flow boiling heat transfer and pressure drop in square microchannels**
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- XLIX. **INFLUENCE OF OSMOTIC DEHYDRATION ON DRYING KINETICS OF CARROT**
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- LI. **Laminar forced convective slip flow in a microduct with a sinusoidally varying heat flux in axial direction**
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- LII. **PRESSURE-DRIVEN LAMINAR PULSATING FLOW IN A PIPE: EFFECT OF THE AMPLITUDE**
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- LIII. **Hydrodynamics of piston-driven laminar pulsating flow: Part 1. Developing flow**
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- LIV. **Hydrodynamics of piston-driven laminar pulsating flow: Part 2. Fully developed flow**
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- LIX. **EFFECTS OF BUOYANCY AND CONJUGATE HEAT TRANSFER FLOW OVER ON A VERTICAL PLATE EMBEDDED IN A POROUS MEDIA**
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- LXVI. **EFFECTS OF MILD AND THERMAL RADIATION ON FORCED CONVECTION FLOW ABOUT A PERMEABLE HORIZONTAL PLATE EMBEDDED IN A POROUS MEDIUM**

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- LXXIX. **Frictional Pressure Drop for Gas Flows in a Microchannel Between Two Parallel Plates**
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- LXXX. **MHD mixed convection of a viscous dissipating fluid about a permeable vertical flat plate**
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- LXXXVIII. **Reply to comments on our below referenced article by K. Hooman "Viscous-dissipation effects on the heat transfer in a Poiseuille flow"**
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- XC. **Experimental and numerical investigation of heat and mass transfer during drying of Hayward kiwi fruits (Actinidia Deliciosa Planch)**
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Metrics

Publication: 241

Citation (WoS): 3891

Citation (Scopus): 4356

H-Index (WoS): 37

H-Index (Scopus): 41

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