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Araştırma Alanları

Mühendislik ve Teknoloji

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Thermal Management and Entropy Minimization of Plain and Modified Shaped Plate Fin Heat Sinks Using Multi-Objective Genetic Algorithm**
Kuru M. N., ÜNAL Ş., Efe M., Duman N., Karasu I., Erdinc M. T., AYDIN O.
ASME JOURNAL OF HEAT AND MASS TRANSFER, sa.12, 2024 (SCI-Expanded)
- II. **An experimental study on the performance of PCM-based heat sink with air for thermal regulation of PVs**
YAĞCI O. K., AVCI M., AYDIN O., MARKAL B.
SOLAR ENERGY, cilt.278, 2024 (SCI-Expanded)
- III. **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, cilt.156, 2024 (SCI-Expanded)
- IV. **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, cilt.154, 2024 (SCI-Expanded)
- V. **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.
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- VI. **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.
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- VII. **Effect of inlet temperature on flow boiling behavior of expanding micro-pin-fin type heat sinks**
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- VIII. **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.

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- IX. **Comparative investigation of different types of expanding micro-pin-fin heat sinks at low mass flux**
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- X. **Effect of fin width ratio on thermal performance of fin based-heat sink with phase change materials**
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- XI. **The role of jet-to-crossflow velocity ratio on convective heat transfer enhancement in the cooling of discrete heating modules**
Albayrak M., Sarper B., SAĞLAM M., BİRİNCİ S., AYDIN O.
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- XII. **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.
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- XIII. **Pulsating flow and heat transfer of power-law fluid in a circular pipe**
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- XIV. **Investigation of effect of a mechanical agitator on pool boiling heat transfer**
Sahin F., Kaya A., Alic E., AYDIN O.
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- XV. **Constructal enhancement of cooling performance of local heating elements with different heat generation rates under free and mixed convection regimes**
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- XVI. **An optimization study on thermo-hydraulic performance arrays of circular and diamond shaped cross-sections in periodic flow**
Erdinc M. T., AKTAŞ A. E., Kuru M. N., BİLGİLİ M., AYDIN O.
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- XVII. **Effect of double cross sectional ratio on performance characteristics of pulsating heat pipes**
MARKAL B., Candere A., AVCI M., AYDIN O.
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- XVIII. **Investigation of flat plate type pulsating heat pipes via flow visualization-assisted experiments: Effect of cross sectional ratio**
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- XIX. **Thermal energy storage performance of PCM/graphite matrix composite in a tube-in-shell geometry**
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- XX. **Effect of heaters' clearance on mixed convection cooling performance in a discretely heated horizontal duct**
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- XXI. **Conical coaxial impinging air jets: angle effect on the heat transfer performance**
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- XXII. **Constructal design of heat sources with different heat generation rates for the hot spot mitigation**
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- XXIII. **Effect of air exhaust location on surgical site particle distribution in an operating room**

- AĞIRMAN A., ÇETİN Y. E., Avci M., AYDIN O.
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- XXIV. **Evaluation of in-duct UV-C lamp array on air disinfection: A numerical analysis**
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- XXV. **Effect of air change rate on particle dispersion from inlet opening under varying particle source strengths**
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- XXVII. **Effect of laminar airflow unit diffuser size on pathogen particle distribution in an operating room**
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- XXX. **Flow boiling characteristics in a novel minichannel with a step on each corner**
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- XXXII. **Melting and solidification of PCM in a tube-in-shell unit: Effect of fin edge lengths' ratio**
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- XXXIII. **Effect of hydraulic diameter on flow boiling in rectangular microchannels**
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- XXXVI. **ENHANCING STORAGE PERFORMANCE IN A TUBE-IN SHELL STORAGE UNIT BY ATTACHING A CONDUCTING FIN TO THE BOTTOM OF THE TUBE**
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- XXXVII. **Constructal Placement of Discrete Heat Sources With Different Lengths in Vertical Ducts Under Natural and Mixed Convection**
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- XXXVIII. **Experimental and numerical investigation of natural convection in a discretely heated vertical channel: Effect of the blockage ratio of the heat sources**

- Sarper B., SAĞLAM M., AYDIN O.
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- XL. **Experimental investigation of coaxial impinging air jets**
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- XLI. **Analysis of extended micro-Graetz problem in a microtube**
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- XLV. **EXPERIMENTAL STUDY OF SINGLE-PHASE FLUID FLOW AND HEAT TRANSFER CHARACTERISTICS IN RECTANGULAR MICROCHANNELS**
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- XLVI. **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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- L. **INFLUENCE OF OSMOTIC DEHYDRATION ON DRYING KINETICS OF CARROT**
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- LI. **Conjugate-MHD mixed convection from a vertical flat plate in presence of viscous dissipation**
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- LII. **Laminar forced convective slip flow in a microduct with a sinusoidally varying heat flux in axial direction**
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- LIX. **Effect of eccentricity on melting behavior of paraffin in a horizontal tube-in-shell storage unit: An experimental study**
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- LXX. **Natural convection in an inclined quadrantal cavity heated and cooled on adjacent walls**
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- LXXI. **Analytical Investigation of Heat Transfer in Couette-Poiseuille Flow Through Porous Medium**
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- LXXV. **A new vortex generator geometry for a counter-flow Ranque-Hilsch vortex tube**
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- LXXVII. **Drying kinetics and sorption isotherms of cornelian cherry fruits**
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- LXXX. **On the constant wall temperature boundary condition in internal convection heat transfer studies including viscous dissipation**
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- LXXXVI. **Experimental and theoretical analysis of drying carrots**
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- LXXXVII. **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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- LXXXIX. **THE EFFECT OF RADIATION ON FORCED CONVECTION FLOW AROUND A WEDGE**
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- XC. **Mixed Convection in a Vertical Microannulus Between Two Concentric Microtubes**
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- XCI. **Radiation effect on MHD mixed convection flow about a permeable vertical plate**
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