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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**
Yazici M. Y., AVCI M., AYDIN O., Arshad A., Jabbal M.
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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.
International Communications in Heat and Mass Transfer, cilt.127, 2021 (SCI-Expanded)
- 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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- XXIX. **Prediction of Two-Phase Heat Transfer Coefficient of Flow Boiling in Minichannels**
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- XXXI. **Combined effects of inclination angle and fin number on thermal performance of a PCM-based heat sink**
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- XXXIII. **Effect of hydraulic diameter on flow boiling in rectangular microchannels**
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- XXXV. **Natural Convection in an Enclosure with a Pair of Discrete Heat Sources**
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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**
SARPER B., SAĞLAM M., AYDIN O.
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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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Markal B., Candan A., AYDIN O., Avci M.
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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**
Markal B., AYDIN O., Avci M.
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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**
Kaya A., AYDIN O.
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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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- LIII. **PRESSURE-DRIVEN LAMINAR PULSATING FLOW IN A PIPE: EFFECT OF THE AMPLITUDE**
 Aygun C., AYDIN O.
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- LVI. **Hydrodynamics of piston-driven laminar pulsating flow: Part 1. Developing flow**
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- LVII. **An experimental study on the decaying swirl flow in a tube**
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- LVIII. **On the effect of eccentricity of a horizontal tube-in-shell storage unit on solidification of a PCM**
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- LX. **EFFECTS OF BUOYANCY AND CONJUGATE HEAT TRANSFER FLOW OVER ON A VERTICAL PLATE EMBEDDED IN A POROUS MEDIA**
 Kaya A., AYDIN O.
 ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.34, sa.1, ss.35-41, 2014 (SCI-Expanded)
- LXI. **ON THE HYDRODYNAMICAL DEVELOPMENT LENGTH FOR PRESSURE-DRIVEN PULSATING LAMINAR FLOW IN A PIPE**
 AYDIN O., AYGUN C.
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- LXII. **Heat transfer in a turbulent slot jet flow impinging on concave surfaces**
 Oztekin E., AYDIN O., Avci M.
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- LXIII. **Laminar natural convection in right-angled triangular enclosures heated and cooled on adjacent walls**
 YESILOZ G., AYDIN O.
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- LXIV. **MHD mixed convection of a viscous dissipating fluid about a vertical slender cylinder**
 AYDIN O., Kaya A.
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- LXVII. **Exergy analysis of a counter-flow Ranque-Hilsch vortex tube having different helical vortex generators**
MARKAL B., AYDIN O., Avci M.
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- LXVIII. **EFFECTS OF MILD AND THERMAL RADIATION ON FORCED CONVECTION FLOW ABOUT A PERMEABLE HORIZONTAL PLATE EMBEDDED IN A POROUS MEDIUM**
Kaya A., AYDIN O.
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- LXIX. **DRYING KINETICS AND MOISTURE TRANSFER PARAMETERS OF HAZELNUT**
Kaya A., AYDIN O., AKGUN M.
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- LXXI. **Analytical Investigation of Heat Transfer in Couette-Poiseuille Flow Through Porous Medium**
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AYDIN O., YESILOZ G.
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AYDIN O., Kaya A.
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AYDIN O., Kaya A.
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AYDIN O., MARKAL B., Avci M.
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- LXXVII. **Drying kinetics and sorption isotherms of cornelian cherry fruits**
Kaya A., AYDIN O.
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- LXXVIII. **Effect of different drying conditions on the vitamin C (ascorbic acid) content of Hayward kiwifruits (Actinidia deliciosa Planch)**
Kaya A., Aydın O., KOLAYLI S.
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- LXXIX. **Comparison of experimental data with results of some drying models for regularly shaped products**
Kaya A., AYDIN O., DINCER I.
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- LXXX. **On the constant wall temperature boundary condition in internal convection heat transfer studies including viscous dissipation**
AYDIN O., Avci M.

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- LXXXI. **Frictional Pressure Drop for Gas Flows in a Microchannel Between Two Parallel Plates**
Avci M., AYDIN O.
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ARICI M. E., AYDIN O.
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- LXXXV. **ANALYSIS OF HEAT AND FLUID FLOW IN CONCENTRIC ANNULAR SQUARE DUCTS**
KUCUK H., Avci M., AYDIN O., ASAN H.
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- LXXXVI. **Experimental and theoretical analysis of drying carrots**
Kaya A., AYDIN O., DEMİRTAŞ C.
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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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- XCI. **Radiation effect on MHD mixed convection flow about a permeable vertical plate**
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IV. FOTOVOLTAİK PANELLERİN FAZ DEĞİŞTİREN MADDE DESTEKLİ ISI ALICISIYLA SOĞUTULMASI

YAĞCI O. K., AVCI M., AYDIN O., MARKAL B.

15. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Türkiye, 26 - 29 Nisan 2023, ss.1502-1516

V. DOLUM ORANININ ÜNİFORM OLMAYAN KESİTE SAHİP ATIMLI ISI BORUSUNUN ÇALIŞMA PERFORMANSI ÜZERİNDEKİ ETKİSİ

Candan Candere A., Markal B., Avcı M., Aydın O.

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IX. NUMERICAL INVESTIGATION OF NATURALLY VENTILATED FACADE WITH PCM LOCATED IN MEDITERRANEAN REGION

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X. EXPERIMENTAL INVESTIGATION OF THE PULSATING HEAT PIPES HAVING LARGER FLOW SECTIONS IN THE EVAPORATOR REGION

CANDAN CANDERE A., MARKAL B., AYDIN O., AVCI M.

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XI. EFFECT OF MAGNETIC FIELD ON FLOW AND HEAT TRANSFER IN HYDRODYNAMICALLY AND

THERMALLY DEVELOPING COUETTEPOISEUILLE FLOW BETWEEN PARALLEL PLATES

Yağcı E., Aydın O., Bali T.

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- XII. EXPERIMENTAL INVESTIGATION OF THE PULSATING HEAT PIPES HAVING LARGER FLOW SECTIONS IN THE EVAPORATOR REGION**
Candan Candere A., Markal B., Aydın O., Avcı M.
5th International Anatolian Energy Symposium, Trabzon, Türkiye, 24 - 25 Mart 2021, ss.630-636
- XIII. EFFECT OF THE CLEARANCE BETWEEN HEATED BLOCKS ON OVERALL COOLING PERFORMANCE IN A HORIZONTAL DUCT**
Birinci S., Sağlam M., Sarper B., Aydın O.
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- XIV. UV Lamba Diziliminin Hava Dezenfeksiyonu Üzerindeki Etkisi:Kanal Uygulaması**
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22. Isı Bilimi ve Tekniği Kongresi (22nd Congress on Thermal Science and Technology), Kocaeli, Türkiye, 11 - 14 Eylül 2019, cilt.1, ss.371-377
- XV. HEAT TRANSFER BEHAVIOR OF COAXIAL IMPINGING JETS: AN EXPERIMENTAL STUDY**
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- XVI. EFFECT OF DIFFERENT CONFIGURATIONS OF INLET POSITIONS ON HEAT TRANSFER IN A DISCRETELY HEATED HORIZONTAL CHANNEL**
Birinci S., Sağlam M., Sarper B., Aydın O.
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- XVII. DÜZLEMSEL BİR KANAL İÇERİSİNDEKİ TAM GELİŞMİŞ AKIŞTA MANYETİK ALANIN AKIŞ VE ISI TRANSFERİ ÜZERİNE ETKİSİ**
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- XVIII. Hava Değişim Katsayısının Kirletici Uzaklaştırma Performansına Etkisinin İncelenmesi**
ÇETİN Y. E., AVCI M., AYDIN O.
22. Isı Bilimi ve Tekniği Kongresi (22nd Congress on Thermal Science and Technology), 11 - 14 Eylül 2019
- XIX. İzotermal ve İzotermal Olmayan Akış Şartlarında Kirletici Dağılım Benzerliğinin İncelenmesi**
ÇETİN Y. E., AVCI M., AYDIN O.
22. Isı Bilimi ve Tekniği Kongresi (22nd Congress on Thermal Science and Technology), 11 - 14 Eylül 2019
- XX. Laminer Akış Ünitesi Boyutunun Cerrahi Alan Üzerindeki Patojen Partikül Dağılımına Etkisi**
AĞIRMAN A., ÇETİN Y. E., AVCI M., AYDIN O.
22. Isı Bilimi ve Tekniği Kongresi (22nd Congress on Thermal Science and Technology), 11 - 14 Eylül 2019
- XXI. Investigation of Mixed Convection in a Vertical Microannulus: Viscous Dissipation Effect**
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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.
10th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings (X IAQVEC2019), 5 - 07 Eylül 2019
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ULIBTK'19 22. Ulusal Isı Bilimi ve Tekniği Kongresi, 11-14 Eylül 2019, Kocaeli, Kocaeli, Türkiye, 11 Ekim 2019
- XXVI. **Düzlemsel bir kanal içerisindeki tam gelişmiş akışta manyetik alanın akış ve ısı transferi üzerine etkisi**
YAĞCI E., AYDIN O., AVCI M., BALI T.
22. Isı Bilimi ve Tekniği Kongresi (22nd Congress on Thermal Science and Technology), Kocaeli, Türkiye, 11 - 14 Eylül 2019
- XXVII. **Influence of ceiling height on airflow and particle distribution in an operating room**
AĞIRMAN A., ÇETİN Y. E., AVCI M., AYDIN O.
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- XXVIII. **Effect of air exchange rate on particle decay in a cleanroom: A numerical study**
ÇETİN Y. E., AVCI M., AYDIN O.
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- XXIX. **Bir Ameliyathanede Hava Değişim Katsayısının Partikül Dağılımı Üzerine Etkisi**
AĞIRMAN A., ÇETİN Y. E., AVCI M., AYDIN O.
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- XXX. **Bir Ameliyathane İçin Çıkış Menfez Konumunun Temizleme Süresine Etkisi**
ÇETİN Y. E., AVCI M., AYDIN O.
14. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, Türkiye, 17 - 20 Nisan 2019
- XXXI. **Dönmeli Eş Eksenli Çarpan Jetlerde Isı Transferinin Deneysel İncelenmesi**
MARKAL B., AYDIN O.
14. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 17 - 20 Nisan 2019, ss.793-801
- XXXII. **KESİTİ T-ŞEKLİNDE OLAN TEK BİR MİNİ KANALDA DOYMUŞ KAYNAMALI AKIŞ KARAKTERİSTİKLERİNİN DENEYSEL İNCELENMESİ**
MARKAL B., CANDAN A., AYDIN O.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu (AES 2018), Edirne, Türkiye, 18 - 20 Nisan 2018, ss.561-572
- XXXIII. **Ayrık Isı Kaynaklarıyla Isıtılan Düşey Kanalda Kaynak Dizilişlerinin Isı Transferine Etkisi**
SARPER B., SAĞLAM M., birinci S., AYDIN O.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Türkiye, 18 - 20 Nisan 2018, ss.652-662
- XXXIV. **Resonance Phenomena in a Nanofluid Filled Enclosure Heated Periodically from the Side**
SAĞLAM M., SARPER B., AYDIN O.
Proceedings of the 3 r d World Congress on Momentum, Heat and Mass Transfer (MHMT'18), Budapeşte, Macaristan, 12 - 14 Nisan 2018, ss.1-7
- XXXV. **Flow Boiling Characteristics in a Single Rectangular Microchannel**
MARKAL B., CANDAN A., AYDIN O., AVCI M.
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- XXXVI. **Flow Boiling Characteristics in a Single Rectangular Minichannel**
MARKAL B., CANDAN A., AYDIN O., AVCI M.
8th International Advanced Technologies Symposium (IATS'17), Elazığ, Türkiye, 19 - 22 Ekim 2017, ss.2075-2081
- XXXVII. **MİKRO BOYUTLU DİKDÖRTGENSEL KANALLARDA KAYNAMALI AKIŞIN DENEYSEL İNCELENMESİ**
MARKAL B., AYDIN O., AVCI M.
VIII. ULUSAL HİDROLİK PNÖMATİK KONGRESİ, İzmir, Türkiye, 22 - 25 Kasım 2017, ss.491-498
- XXXVIII. **BİR YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN EĞİK KARESEL BİR KAPALI ORTAMDA DOĞAL TAŞINIM**
SAĞLAM M., SARPER B., AYDIN O.
21. ULUSAL ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Çorum, Türkiye, 13 - 16 Eylül 2017
- XXXIX. **Faz Değiştiren Madde (FDM) İlaveli Isı Alıcı İle Elektronik Cihazların Termal Yönetimi: Kanatçık**

Etkisi

YAZICI M. Y., AVCI M., AYDIN O.

21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Türkiye, 13 - 16 Eylül 2017, ss.669-678

- XL. **İki Düşey Levha Arasındaki Couette-Poiseuille Akışı: Karma Taşınımın İncelenmesi**
ALTUNKAYA A. N., AVCI M., AYDIN O.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Türkiye, 13 - 16 Eylül 2017, ss.304-312
- XLl. **Düşey Eksenli Silindirik Bir Aralık İçerisinde Faz Değiştiren Madde İle Gizli Isı Depolama**
YAĞCI O. K., AVCI M., AYDIN O.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Türkiye, 13 - 16 Eylül 2017, ss.1363-1377
- XLII. **Silindirik Bir Boru İçerisindeki Tam Gelişmiş Akışta Manyetik Alanın Akış Ve Isı Transferi Üzerine Etkisi**
YAĞCI E., AYDIN O., AVCI M., BALI T.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Türkiye, 13 - 16 Eylül 2017, ss.445-453
- XLIII. **Kare Kesitli Mini Bir Kanal İçerisinde Kaynamalı Akışın Deneysel İncelenmesi**
CANDAN A., MARKAL B., AYDIN O., AVCI M.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Türkiye, 13 - 16 Eylül 2017, ss.313-321
- XLIV. **CONJUGATE NATURAL CONVECTION IN AN ENCLOSURE SUBJECTED TO PERIODICAL HEATING**
SARPER B., SAĞLAM M., AYDIN O.
SECOND INTERNATIONAL CONFERENCE ON VIABLE ENERGY TRENDS, Helsinki, Finlandiya, 28 - 30 Nisan 2017, ss.198-211
- XLV. **NATURAL CONVECTION IN A DISCRETELY HEATED CHANNEL: COMPARISON OF THE TWO AND THREE DIMENSIONAL MODELS**
SARPER B., SAĞLAM M., AYDIN O.
SECOND INTERNATIONAL CONFERENCE ON VIABLE ENERGY TRENDS, Helsinki, Finlandiya, 28 - 30 Nisan 2017, ss.212-224
- XLVI. **DİKDÖRTGEN KESİTLİ BİR ORTAMA YERLEŞTİRİLEN AYRIK ISI KAYNAĞININ KONUMUNUN AKIŞ VE ISI TRANSFERİNE ETKİSİ**
SAĞLAM M., AYDIN O., SARPER B.
13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Türkiye, 19 - 22 Nisan 2017, ss.1013-1023
- XLVII. **DÜŞEY YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN KANALDA YÜZEY İŞİNİMİNİN ISI TRANSFERİNE ETKİSİ**
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.
13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Türkiye, 19 - 22 Nisan 2017, ss.1027-1036
- XLVIII. **DÜŞEY YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN KANALDA YÜZEY İŞİNİMİNİN ISI TRANSFERİNE ETKİSİ**
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.
13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Türkiye, 19 - 22 Nisan 2017, cilt.1, ss.1027-1036
- XLIX. **Minikanalarda Doymuş Kaynamalı Akış Karakteristiklerinin Deneysel İncelenmesi**
CANDAN A., MARKAL B., AYDIN O., AVCI M.
13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 19 - 22 Nisan 2017, cilt.2, ss.1483-1494
- L. **Düşey Yüzeyinde Ayrık Isı Kaynakları Bulunan Kanalda Yüzey İşiniminin Isı Transferine Etkisi**
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.
13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 19 - 22 Nisan 2017, cilt.1, ss.1027-1035
- Ll. **Kare kesitli mikrokanallarda doymuş kaynamalı akış karakteristiklerinin deneysel incelenmesi**
MARKAL B., AYDIN O., AVCI M.
13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 19 - 22 Nisan 2017, cilt.2, ss.1433-1442
- LII. **Oda İçi Partikül Dağılımının Lagrange Yaklaşımına Göre Sayısal Simülasyonu**
ÇETİN Y. E., AYDIN O.
13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, Türkiye, 19 - 22 Nisan 2017
- LIII. **Faz Değiştiren Madde (FDM)-İlaveli Isı Alıcılarla Elektronik Ekipmanların Soğutulması: Konum Etkisi**
Yazıcı M. Y., AVCI M., AYDIN O.

13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 19 - 22 Nisan 2017, cilt.2, ss.1471-1479
- LIV. **Kare kesitli mini bir kanal içerisinde kaynamalı akışın deneysel incelenmesi**
CANDAN A., AVCI M., MARKAL B., AYDIN O.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Türkiye, 13 - 16 Nisan 2017
- LV. **Natural Convection Inside A Rectangular Enclosure With Two Discrete Heat Sources Placed On Its Bottom Wall**
SAĞLAM M., SARPER B., AYDIN O.
Proceedings of the 2 nd World Congress on Momentum, Heat and Mass Transfer (MHMT'17), Barselona, İspanya, 6 - 08 Nisan 2017, ss.1-8
- LVI. **Natural Convection Heat Transfer from Discretely Heated Vertical Channel: Effect of the Surface Radiation**
SARPER B., SAĞLAM M., AYDIN O., AVCI M.
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- LVII. **Thermal Management Of Electronic Devices With PCM-Based Heat Sink: Effect Of Inclination Angle**
YAZICI M. Y., AVCI M., AYDIN O.
II. International Defence Industry Symposium (IDEFIS 2017), Kırıkkale, Türkiye, 6 - 08 Nisan 2017, ss.984-994
- LVIII. **Thermal management of electronic devices with pcm-based heat Sink: effect of inclination angle**
YAZICI M. Y., AVCI M., AYDIN O.
The second of the National Defense Industry Symposium (IDEFIS 2017), Kırıkkale, Türkiye, 6 - 08 Nisan 2017, ss.984-994
- LIX. **GELİŞMEKTE OLAN ATIMLI AKIŞIN HİDRODİNAMİK İNCELENMESİ**
AYGÜN C., AYDIN O.
20. ULUSAL ISI BİLİMİ VE TEKNİĞİ KONGRESİ 2-5 EYLÜL 2015 (ULIBTK'15), Türkiye, 2 - 05 Eylül 2015, cilt.20
- LX. **Yarı Küresel İçbükey Yüze Çarpan Yuvarlak Jet Akışının Hidrodinamik İncelenmesi, ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, 2-5 Eylül 2015, Balıkesir,**
ÖZTEKİN KULOĞLU E., AYDIN O., AVCI M.
ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, 2-5 Eylül 2015, Balıkesir, Balıkesir, Türkiye, 02 Ekim 2015, ss.1327-1333
- LXI. **Paralel mikro kanallı ısı alıcıda kaynamalı akış karakteristiklerinin deneysel olarak incelenmesi**
MARKAL B., AYDIN O., AVCI M.
ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Türkiye, 2 - 05 Eylül 2015, ss.85-95
- LXII. **Parametric Investigation Of Magnetic Brayton Refrigeration Cycle**
ÇETİN Y. E., AYDIN O.
Climamed 2015 Mediterranean Congress of HVAC, 9 - 11 Eylül 2015
- LXIII. **Innovative designs to passively enhance thermal energy storage using PCM**
AYDIN O., AVCI M., YAZICI M. Y., Akgün M.
The 8th Mediterranean Congress of Heating, Ventilating and Air-Conditioning (CLIMAMED 2015), Juan-Les-Pins, Fransa, 10 - 11 Eylül 2015
- LXIV. **Conjugate Heat Transfer in a Double Pane Window with Time Varying Outside Temperature**
SARPER B., AYDIN O.
The 8th Mediterranean Congress of Heating, Ventilating and Air-Conditioning (CLIMAMED 2015), Juan-les-pins, Fransa, 9 - 11 Eylül 2015
- LXV. **Gelişmekte olan atımlı akışın hidrodinamik incelenmesi**
AYGÜN C., AYDIN O.
ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Türkiye, 2 - 05 Eylül 2015
- LXVI. **Düşey yüzeyine ayrıık ısıtıcılar yerleştirilmiş kapalı ortamda periyodik doğal taşınım**
SARPER B., SAĞLAM M., AYDIN O.
ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Türkiye, 2 - 05 Eylül 2015
- LXVII. **Paralel mikro kanallı ısı alıcıda kaynamalı akış karakteristiklerinin deneysel olarak incelenmesi**
Markal B., AYDIN O., AVCI M.

20. Ulusal Isı Bilimi ve Tekniği Kongresi 2015 (ULIBTK'15), Balıkesir, Türkiye, 2 - 05 Eylül 2015, ss.85-95
- LXVIII. **Halka aralık içerisinde faz değiştiren madde (FDM) ile enerji depolama:kanatçık etkisi**
YAZICI M. Y., AVCI M., AKGUN M., AYDIN O.
Isı Bilimi ve Tekniği, Balıkesir, Türkiye, 2 - 05 Eylül 2015, ss.117
- LXIX. **Yarı silindirik içbükey yüzeye çarpan yuvarlak jet akışının hidrodinamik incelenmesi**
ÖZTEKİN KULOĞLU E., AYDIN O., AVCI M.
20. Ulusal Isı Bilimi ve Tekniği Kongresi 2015 (ULIBTK'15), Balıkesir, Türkiye, 2 - 05 Eylül 2015, ss.1327-1333
- LXX. **Manyetik Ericsson çevriminin parametrik olarak incelenmesi**
ÇETİN Y. E., AYDIN O.
12. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 8 - 11 Nisan 2015
- LXXI. **Dış yüzey sıcaklığı periyodik olarak değişen kapalı ortamlarda birleşik doğal taşınım duvar ısı iletimi etkisi**
SARPER B., AYDIN O.
12. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Türkiye, 8 - 11 Nisan 2015, cilt.1, ss.701-711
- LXXII. **İçbükey bir Yüzeyin Çarpan Jet ile Soğutulmasında Akış ve Isı Geçişi**
ÖZTEKİN KULOĞLU E., AYDIN O., AVCI M.
ULIBTK'13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, 9-12 Eylül 2013, Samsun, Samsun, Türkiye, 09 Ekim 2013, ss.594-599
- LXXIII. **Ortam sıcaklığı ve yalıtımın Ranque-Hilsch vorteks tüpü performansı üzerindeki etkisinin deneysel olarak incelenmesi**
MARKAL B., AYDIN O., AVCI M.
ULIBTK'13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Türkiye, 9 - 12 Eylül 2013, ss.905-910
- LXXIV. **ATIMLI GİRİŞ AKIŞI ÜRETİMİ VE İLGİLİ BÜYÜKLÜKLERİN DENEYSEL İNCELENMESİ**
AYGÜN C., AYDIN O.
VIII. ULUSAL ÖLÇÜMBİLİM KONGRESİ Gebze-KOCAELİ, Kocaeli, Türkiye, 26 - 28 Eylül 2013, cilt.8, ss.1-12
- LXXV. **Yeni Bir Soğutma Teknolojisi: Manyetik Soğutma**
ÇETİN Y. E., AYDIN O.
ULIBTK'13 19. ULUSAL ISI BİLİMİ VE TEKİNİĞİ KONGRESİ, Türkiye, 9 - 12 Eylül 2013
- LXXVI. **Basınç Kaynaklı Atımlı Akışın Hidrodinamik İncelenmesi**
AYGÜN C., AYDIN O.
19. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'13), Samsun, Türkiye, 9 - 12 Eylül 2013, cilt.19, ss.141-147
- LXXVII. **Bir Yüzeyin Çarpan Jet İle Soğutulmasında Akış ve Isı Geçişi**
ÖZTEKİN E., AYDIN O., AVCI M.
19. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'13), Samsun, Türkiye, 9 - 12 Eylül 2013, ss.594-599
- LXXVIII. **Eşeksenli Yatay Silindirik Bir Halka Aralık İçerisinde Parafinle Gizli Isı Depolama**
Yazıcı M. Y., AVCI M., AYDIN O.
19. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'13), Samsun, Türkiye, 9 - 12 Eylül 2013, ss.1425-1432
- LXXIX. **EŞ EKSENLİ YATAY SİLİNDİRİK BİR HALKA ARALIK İÇERİSİNDE PARAFİNLE GİZLİ ISI DEPOLAMA**
YAZICI M. Y., AVCI M., AYDIN O.
Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Türkiye, 9 - 12 Eylül 2013, ss.186
- LXXX. **Ortam Sıcaklığının ve Yalıtımın Ranque-Hilsch Vorteks Tüpü Performansı Üzerindeki Etkisinin Deneysel Olarak İncelenmesi**
Markal B., AYDIN O., AVCI M.
19. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'13), Samsun, Türkiye, 9 - 12 Eylül 2013, ss.909-914
- LXXXI. **CONVECTIVE HEAT TRANSFER CORRELATIONS IN SOME COMMON MICRO-GEOMETRIES**
AYDIN O., AVCI M.
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- LXXXII. **Forced Convection Flow of Viscous Dissipative Power-Law Fluids in a Pipe: Part 2. Thermally Developing Flow**
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LXXXIII. Forced Convection Flow of Viscous Dissipative Power-Law Fluids in a Pipe: Part 1. Hydrodynamically and Thermally Fully Developed Flow

AVCI M., AYDIN O.

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LXXXIV. Poiseuille Akışında Viskoz Yayılımın Isı Geçişi Üzerindeki Etkisi

AVCI M., AYDIN O.

15. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'05), Trabzon, Türkiye, 7 - 09 Eylül 2005, ss.169-174

LXXXV. Analysis of Fluid Flow and Heat Transfer in Microtubes

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