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### Research Areas

Engineering and Technology

### Published journal articles indexed by SCI, SSCI, and AHCI

- 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, no.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, vol.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, vol.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, vol.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.  
Journal of Energy Storage, vol.83, 2024 (SCI-Expanded)
- 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.

International Journal of Thermal Sciences, vol.193, 2023 (SCI-Expanded)

- IX. **Comparative investigation of different types of expanding micro-pin-fin heat sinks at low mass flux**  
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INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.148, 2023 (SCI-Expanded)
- 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., Jabbar M.  
Applied Thermal Engineering, vol.227, 2023 (SCI-Expanded)
- 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.  
THERMAL SCIENCE AND ENGINEERING PROGRESS, vol.37, 2023 (SCI-Expanded)
- 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.  
Thermal Science and Engineering Progress, vol.37, 2023 (SCI-Expanded)
- XIII. **Pulsating flow and heat transfer of power-law fluid in a circular pipe**  
ALTUNKAYA A. N., AYDIN O., AVCI M.  
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- XIV. **Investigation of effect of a mechanical agitator on pool boiling heat transfer**  
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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**  
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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**  
MARKAL B., Candere A., AVCI M., AYDIN O.  
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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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- XXVI. **Particle dispersion and deposition in displacement ventilation systems combined with floor heating**  
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- XXX. **Flow boiling characteristics in a novel minichannel with a step on each corner**  
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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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- XXXII. **Melting and solidification of PCM in a tube-in-shell unit: Effect of fin edge lengths' ratio**  
YAĞCI O. K., Avci M., AYDIN O.  
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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**  
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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**

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- XXXIX. **Experimental investigation of flow boiling in single minichannels with low mass velocities**  
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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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ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.1-13, 2018 (SCI-Expanded)
- XLV. **EXPERIMENTAL STUDY OF SINGLE-PHASE FLUID FLOW AND HEAT TRANSFER CHARACTERISTICS IN RECTANGULAR MICROCHANNELS**  
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- XLIX. **Effect of aspect ratio on saturated flow boiling in microchannels**  
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INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.93, pp.130-143, 2016 (SCI-Expanded)
- 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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- LVIII. **On the effect of eccentricity of a horizontal tube-in-shell storage unit on solidification of a PCM**  
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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**  
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- LXIX. **DRYING KINETICS AND MOISTURE TRANSFER PARAMETERS OF HAZELNUT**  
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- LXX. **Natural convection in an inclined quadrantal cavity heated and cooled on adjacent walls**  
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- LXXVII. **Drying kinetics and sorption isotherms of cornelian cherry fruits**  
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- LXXIX. **Comparison of experimental data with results of some drying models for regularly shaped products**  
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- LXXXVIII. **An experimental study on drying kinetics of some herbal leaves**  
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- XC. **Mixed Convection in a Vertical Microannulus Between Two Concentric Microtubes**  
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- 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, Turkey, 18 - 20 April 2018, pp.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, Turkey, 18 - 20 April 2018, pp.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, Hungary, 12 - 14 April 2018, pp.1-7
- XXXV. **Flow Boiling Characteristics in a Single Rectangular Microchannel**  
MARKAL B., CANDAN A., AYDIN O., AVCI M.  
8th International Advanced Technologies Symposium (IATS217), 19 - 22 October 2017, pp.2075-2081
- 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, Turkey, 19 - 22 October 2017, pp.2075-2081
- XXXVII. **MİKRO BOYUTLU DİKDÖRTGENSEL KANALLARDA KAYNAMALI AKIŞIN DENEYSEL İNCELENMESİ**  
MARKAL B., AYDIN O., AVCI M.  
VIII. ULUSAL HİDROLİK PNÖMATİK KONGRESİ, İzmir, Turkey, 22 - 25 November 2017, pp.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, Turkey, 13 - 16 September 2017

- XXXIX. **Faz Değiřtiren Madde (FDM) İlaveli Isı Alıcı İle Elektronik Cihazların Termal Yönetimi: Kanatçık Etkisi**  
YAZICI M. Y., AVCI M., AYDIN O.  
21. Ulusal Isı Bilimi ve Tekniđi Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.669-678
- XL. **İki Düşey Levha Arasındaki Couette-Poiseuille Akışı: Karma Tařınımın İncelenmesi**  
ALTUNKAYA A. N., AVCI M., AYDIN O.  
21. Ulusal Isı Bilimi ve Tekniđi Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.304-312
- XLI. **Düşey Eksenli Silindirik Bir Aralık İcerisinde Faz Değiřtiren Madde İle Gizli Isı Depolama**  
YAĞCI O. K., AVCI M., AYDIN O.  
21. Ulusal Isı Bilimi ve Tekniđi Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.1363-1377
- XLII. **Silindirik Bir Boru İcerisindeki Tam Geliřmiş Akışta Manyetik Alanın Akış Ve Isı Transferi Üzerine Etkisi**  
YAĞCI E., AYDIN O., AVCI M., BALI T.  
21. Ulusal Isı Bilimi ve Tekniđi Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.445-453
- XLIII. **Kare Kesitli Mini Bir Kanal İcerisinde Kaynamalı Akışın Deneysel İncelenmesi**  
CANDAN A., MARKAL B., AYDIN O., AVCI M.  
21. Ulusal Isı Bilimi ve Tekniđi Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.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, Finland, 28 - 30 April 2017, pp.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, Finland, 28 - 30 April 2017, pp.212-224
- XLVI. **DİKDÖRTGEN KESİTLİ BİR ORTAMA YERLEŐTİRİLEN AYRIK ISI KAYNAĐININ KONUMUNUN AKIŐ VE ISI TRANSFERİNE ETKİSİ**  
SAĞLAM M., AYDIN O., SARPER B.  
13. ULUSAL TESİSAT MÜHENDİSLİĐİ KONGRESİ, İzmir, Turkey, 19 - 22 April 2017, pp.1013-1023
- XLVII. **DÜŐEY YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN KANALDA YÜZEY İŐİNİMİNİN ISI TRANSFERİNE ETKİSİ**  
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.  
13. ULUSAL TESİSAT MÜHENDİSLİĐİ KONGRESİ, İzmir, Turkey, 19 - 22 April 2017, pp.1027-1036
- XLVIII. **DÜŐEY YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN KANALDA YÜZEY İŐİNİMİNİN ISI TRANSFERİNE ETKİSİ**  
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.  
13. ULUSAL TESİSAT MÜHENDİSLİĐİ KONGRESİ, İzmir, Turkey, 19 - 22 April 2017, vol.1, pp.1027-1036
- XLIX. **Minikanallarda Doymuő Kaynamalı Akış Karakteristiklerinin Deneysel İncelenmesi**  
CANDAN A., MARKAL B., AYDIN O., AVCI M.  
13. Ulusal Tesisat Mühendisliđi Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.2, pp.1483-1494
- L. **Düşey Yüzeyinde Ayrık Isı Kaynakları Bulunan Kanalda Yüzey İŐiniminin Isı Transferine Etkisi**  
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.  
13. Ulusal Tesisat Mühendisliđi Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.1, pp.1027-1035
- LI. **Kare kesitli mikrokanallarda doymuő kaynamalı akış karakteristiklerinin deneysel incelenmesi**  
MARKAL B., AYDIN O., AVCI M.  
13. Ulusal Tesisat Mühendisliđi Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.2, pp.1433-1442
- LII. **Oda İçi Partikül Dađılımının Lagrange Yaklařımına Göre Sayısal Simülasyonu**  
ÇETİN Y. E., AYDIN O.  
13. ULUSAL TESİSAT MÜHENDİSLİĐİ KONGRESİ, Turkey, 19 - 22 April 2017
- LIII. **Faz Değiřtiren Madde (FDM)-İlaveli Isı Alıcılarla Elektronik Ekipmanların Sođutulması: Konum Etkisi**

Yazici M. Y., AVCI M., AYDIN O.

13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.2, pp.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, Turkey, 13 - 16 April 2017

**LIV. 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, Spain, 6 - 08 April 2017, pp.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.

Proceedings of the 2nd World Congress on Momentum, Heat and Mass Transfer (MHMT'17), Barselona, Spain, 6 - 08 April 2017

**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, Turkey, 6 - 08 April 2017, pp.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, Turkey, 6 - 08 April 2017, pp.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), Turkey, 2 - 05 September 2015, vol.20

**LX. Yarı Küresel İçbükey Yüzeye 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, Turkey, 02 October 2015, pp.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, Turkey, 2 - 05 September 2015, pp.85-95

**LXII. Parametric Investigation Of Magnetic Brayton Refrigeration Cycle**

ÇETİN Y. E., AYDIN O.

Climamed 2015 Mediterranean Congress of HVAC, 9 - 11 September 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, France, 10 - 11 September 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, France, 9 - 11 September 2015

**LXV. Gelişmekte olan atımlı akışın hidrodinamik incelenmesi**

AYGÜN C., AYDIN O.

ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2 - 05 September 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, Turkey, 2 - 05 September 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, Turkey, 2 - 05 September 2015, pp.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, Turkey, 2 - 05 September 2015, pp.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, Turkey, 2 - 05 September 2015, pp.1327-1333
- LXX. **Manyetik Ericsson çevriminin parametrik olarak incelenmesi**  
ÇETİN Y. E., AYDIN O.  
12. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 8 - 11 April 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, Turkey, 8 - 11 April 2015, vol.1, pp.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, Turkey, 09 October 2013, pp.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, Turkey, 9 - 12 September 2013, pp.905-910
- LXXIV. **ATIMLI GİRİŞ AKIŞI ÜRETİMİ VE İLGİLİ BÜYÜKLÜKLERİN DENEYSEL İNCELENMESİ**  
AYGÜN C., AYDIN O.  
VIII. ULUSAL ÖLÇÜMBİLİM KONGRESİ Gebze-KOCAELİ, Kocaeli, Turkey, 26 - 28 September 2013, vol.8, pp.1-12
- LXXV. **Yeni Bir Soğutma Teknolojisi: Manyetik Soğutma**  
ÇETİN Y. E., AYDIN O.  
ULIBTK'13 19. ULUSAL ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Turkey, 9 - 12 September 2013
- LXXVI. **Basınç Kaynaklı Atımlı Akışın Hidrodinamik İncelenmesi**  
AYGÜN C., AYDIN O.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'13), Samsun, Turkey, 9 - 12 September 2013, vol.19, pp.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, Turkey, 9 - 12 September 2013, pp.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, Turkey, 9 - 12 September 2013, pp.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, Turkey, 9 - 12 September 2013, pp.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, Turkey, 9 - 12 September 2013, pp.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**  
AVCI M., AYDIN O.  
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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.  
The 3rd International Exergy, Energy and Environment Symposium (IEEES3), Evora, Portugal, 1 - 05 July 2007, pp.1-7
- LXXXIV. **Poiseuille Akışında Viskoz Yayılımın Isı Geçişi Üzerindeki Etkisi**  
AVCI M., AYDIN O.  
15. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'05), Trabzon, Turkey, 7 - 09 September 2005, pp.169-174
- LXXXV. **Analysis of Fluid Flow and Heat Transfer in Microtubes**  
AYDIN O., AVCI M.  
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## **Metrics**

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