

Assoc. Prof. METE AVCI

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Education Information

Doctorate, Karadeniz Technical University, -, Makina Mühendisliği, Turkey 2003 - 2008

Postgraduate, Karadeniz Technical University, -, Makina Mühendisliği, Turkey 2001 - 2003

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1996 - 2000

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Mikrokanallarda Akış ve Isı Transferi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Termodinamik, 2008

Postgraduate, İç Kanal Yüzeyi Yapay Olarak Pürüzlendirilen Eşmerkezli Karesel Halka Kanalda Akış ve Isı Transferinin Deneysel İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Termodinamik, 2003

Research Areas

Mechanical Engineering, Energy, Energy storage technologies, Thermodynamics, Heat and Mass Transfer, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2014 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2009 - 2013

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2001 - 2008

Advising Theses

AVCI M., Faz Değiştiren Madde-Esaslı Isı Alıcılarla Elektronik Soğutma, Doctorate, M.Yusuf(Student), Continues

AVCI M., Düşey Silindirik Bir Halka Aralık İçerisinde Enerji Depolama: Kanatçık Etkisi, Postgraduate, O.Kaan(Student),

2017

AVCI M., Kaçık Eksenli Yatay Silindirik Bir Halka Aralık İçerisinde Parafinle Gizli Isı Depolama, Postgraduate, M.Yusuf(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Influence of ventilation strategies on dispersion and removal of fine particles: An experimental and simulation study**
Cetin Y., Avci M., AYDIN O.
SCIENCE AND TECHNOLOGY FOR THE BUILT ENVIRONMENT, vol.26, no.3, pp.349-365, 2020 (SCI-Expanded)
- II. **Prediction of Two-Phase Heat Transfer Coefficient of Flow Boiling in Minichannels**
MARKAL B., Candan A., AYDIN O., Avci M.
HEAT TRANSFER ENGINEERING, vol.41, no.1, pp.17-35, 2020 (SCI-Expanded)
- III. **Melting and solidification of PCM in a tube-in-shell unit: Effect of fin edge lengths' ratio**
YAĞCI O. K., Avci M., AYDIN O.
JOURNAL OF ENERGY STORAGE, vol.24, 2019 (SCI-Expanded)
- IV. **Combined effects of inclination angle and fin number on thermal performance of a PCM-based heat sink**
Yazici M. Y., Avci M., AYDIN O.
APPLIED THERMAL ENGINEERING, vol.159, 2019 (SCI-Expanded)
- V. **Effect of hydraulic diameter on flow boiling in rectangular microchannels**
Markal B., AYDIN O., Avci M.
HEAT AND MASS TRANSFER, vol.55, no.4, pp.1033-1044, 2019 (SCI-Expanded)
- VI. **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)
- VII. **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.
JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.1-13, 2018 (SCI-Expanded)
- VIII. **Experimental investigation of flow boiling in single minichannels with low mass velocities**
Markal B., Candan A., AYDIN O., Avci M.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.98, pp.22-30, 2018 (SCI-Expanded)
- IX. **Analysis of extended micro-Graetz problem in a microtube**
Avci M., AYDIN O.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.43, no.7, 2018 (SCI-Expanded)
- X. **Natural convection in a parallel-plate vertical channel with discrete heating by two flush-mounted heaters: effect of the clearance between the heaters**
Sarper B., SAĞLAM M., AYDIN O., Avci M.
HEAT AND MASS TRANSFER, vol.54, no.4, pp.1069-1083, 2018 (SCI-Expanded)
- XI. **An experimental study on effect of inclination angle on the performance of a PCM-based flat-type heat sink**
Avci M., Yazici M. Y.
APPLIED THERMAL ENGINEERING, vol.131, pp.806-814, 2018 (SCI-Expanded)
- XII. **Saturated flow boiling characteristics in single rectangular minichannels: effect of aspect ratio**
Candan A., MARKAL B., AYDIN O., Avci M.
EXPERIMENTAL HEAT TRANSFER, vol.31, no.6, pp.531-551, 2018 (SCI-Expanded)
- XIII. **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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- ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.1-13, 2018 (SCI-Expanded)
- XIV. **EXPERIMENTAL STUDY OF SINGLE-PHASE FLUID FLOW AND HEAT TRANSFER CHARACTERISTICS IN RECTANGULAR MICROCHANNELS**
Markal B., AYDIN O., Avci M.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.1, pp.65-72, 2018 (SCI-Expanded)
- XV. **Effects of viscous dissipation on mixed convection in a vertical parallel-plate microchannel with asymmetric uniform wall heat fluxes: The slip regime**
ALTUNKAYA A. N., Avci M., AYDIN O.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.111, pp.495-499, 2017 (SCI-Expanded)
- XVI. **Prediction of Heat Transfer Coefficient in Saturated Flow Boiling Heat Transfer in Parallel Rectangular Microchannel Heat Sinks: An Experimental Study**
Markal B., AYDIN O., Avci M.
HEAT TRANSFER ENGINEERING, vol.38, no.16, pp.1415-1428, 2017 (SCI-Expanded)
- XVII. **An experimental investigation of saturated flow boiling heat transfer and pressure drop in square microchannels**
Markal B., AYDIN O., Avci M.
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.65, pp.1-11, 2016 (SCI-Expanded)
- XVIII. **Effect of aspect ratio on saturated flow boiling in microchannels**
MARKAL B., AYDIN O., Avci M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.93, pp.130-143, 2016 (SCI-Expanded)
- XIX. **Laminar forced convective slip flow in a microduct with a sinusoidally varying heat flux in axial direction**
AYDIN O., Avci M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.89, pp.606-612, 2015 (SCI-Expanded)
- XX. **Conjugate heat transfer in a duct with an axially varying heat flux**
Aydn O., Avci M., Bali T., Arici M. E.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.76, pp.385-392, 2014 (SCI-Expanded)
- XXI. **An experimental study on the decaying swirl flow in a tube**
AYDIN O., Avci M., MARKAL B., YAZICI M.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.55, pp.22-28, 2014 (SCI-Expanded)
- XXII. **Effect of eccentricity on melting behavior of paraffin in a horizontal tube-in-shell storage unit: An experimental study**
YAZICI M., Avci M., AYDIN O., AKGUN M.
SOLAR ENERGY, vol.101, pp.291-298, 2014 (SCI-Expanded)
- XXIII. **On the effect of eccentricity of a horizontal tube-in-shell storage unit on solidification of a PCM**
Yazici M. Y., Avci M., AYDIN O., AKGUN M.
APPLIED THERMAL ENGINEERING, vol.64, pp.1-9, 2014 (SCI-Expanded)
- XXIV. **Experimental study of thermal energy storage characteristics of a paraffin in a horizontal tube-in-shell storage unit**
Avci M., YAZICI M.
ENERGY CONVERSION AND MANAGEMENT, vol.73, pp.271-277, 2013 (SCI-Expanded)
- XXV. **Heat transfer in a turbulent slot jet flow impinging on concave surfaces**
Oztekin E., AYDIN O., Avci M.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, pp.77-82, 2013 (SCI-Expanded)
- XXVI. **The effects of nozzle aspect ratio and nozzle number on the performance of the Ranque-Hilsch vortex tube**
Avci M.
APPLIED THERMAL ENGINEERING, vol.50, no.1, pp.302-308, 2013 (SCI-Expanded)

- XXVII. **Hydrodynamics of a turbulent slot jet flow impinging on a concave surface**
Oztekin E., AYDIN O., Avci M.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, no.10, pp.1631-1638, 2012 (SCI-Expanded)
- XXVIII. **Conjugate heat transfer with viscous dissipation in a microtube**
Avci M., Aydın O., Arıcı M. E.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.55, pp.5302-5308, 2012 (SCI-Expanded)
- XXIX. **Exergy analysis of a counter-flow Ranque-Hilsch vortex tube having different helical vortex generators**
MARKAL B., AYDIN O., Avci M.
INTERNATIONAL JOURNAL OF EXERGY, vol.10, no.2, pp.228-238, 2012 (SCI-Expanded)
- XXX. **Analytical Investigation of Heat Transfer in Couette-Poiseuille Flow Through Porous Medium**
AYDIN O., Avci M.
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, vol.25, no.3, pp.468-472, 2011 (SCI-Expanded)
- XXXI. **A new vortex generator geometry for a counter-flow Ranque-Hilsch vortex tube**
AYDIN O., MARKAL B., Avci M.
APPLIED THERMAL ENGINEERING, vol.30, no.16, pp.2505-2511, 2010 (SCI-Expanded)
- XXXII. **An experimental study on the effect of the valve angle of counter-flow Ranque-Hilsch vortex tubes on thermal energy separation**
MARKAL B., AYDIN O., Avci M.
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.34, no.7, pp.966-971, 2010 (SCI-Expanded)
- XXXIII. **On the constant wall temperature boundary condition in internal convection heat transfer studies including viscous dissipation**
AYDIN O., Avci M.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.37, no.5, pp.535-539, 2010 (SCI-Expanded)
- XXXIV. **A CASE OF LOWER MESODERMAL DEFECTS SEQUENCE**
TOS T., AKTAS S., İKbal M., AVCI M., SENEL S., CEYLANER S.
GENETIC COUNSELING, vol.21, no.4, pp.381-384, 2010 (SCI-Expanded)
- XXXV. **Frictional Pressure Drop for Gas Flows in a Microchannel Between Two Parallel Plates**
Avci M., AYDIN O.
HEAT TRANSFER ENGINEERING, vol.31, no.5, pp.344-349, 2010 (SCI-Expanded)
- XXXVI. **ANALYSIS OF HEAT AND FLUID FLOW IN CONCENTRIC ANNULAR SQUARE DUCTS**
KUCUK H., Avci M., AYDIN O., ASAN H.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.29, no.1, pp.7-13, 2009 (SCI-Expanded)
- XXXVII. **Reply to comments on our below referenced article by K. Hooman "Viscous-dissipation effects on the heat transfer in a Poiseuille flow"**
Avci M., AYDIN O.
APPLIED ENERGY, vol.86, no.1, pp.122-123, 2009 (SCI-Expanded)
- XXXVIII. **Mixed Convection in a Vertical Microannulus Between Two Concentric Microtubes**
Avci M., AYDIN O.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.131, no.1, 2009 (SCI-Expanded)
- XXXIX. **Laminar forced convection slip-flow in a micro-annulus between two concentric cylinders**
Avci M., AYDIN O.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.51, pp.3460-3467, 2008 (SCI-Expanded)
- XL. **FORCED CONVECTION FLOW OF VISCOUS DISSIPATIVE POWER-LAW FLUIDS IN A PLANE DUCT Part 1. Hydrodynamically and Thermally Fully Developed Flow**
Avci M., AYDIN O.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.28, no.2, pp.9-16, 2008 (SCI-Expanded)
- XLI. **FORCED CONVECTION FLOW OF VISCOUS DISSIPATIVE POWER-LAW FLUIDS IN A PLANE DUCT Part**

2. Thermally Developing Flow

Avci M., AYDIN O.

ISI BILIMI VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.28, no.2, pp.17-24, 2008 (SCI-Expanded)

- XLII. **Mixed convection in a vertical parallel plate microchannel with asymmetric wall heat fluxes**
Avci M., Aydin O.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.129, no.8, pp.1091-1095, 2007 (SCI-Expanded)
- XLIII. **Mixed convection in a vertical parallel plate microchannel**
Avci M., Aydin O.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.129, no.2, pp.162-166, 2007 (SCI-Expanded)
- XLIV. **Second-law analysis of heat and fluid flow in microscale geometries**
Avci M., Aydin O.
INTERNATIONAL JOURNAL OF EXERGY, vol.4, no.3, pp.286-301, 2007 (SCI-Expanded)
- XLV. **Analysis of laminar heat transfer in micro-Poiseuille flow**
Aydin O., Avci M.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.46, no.1, pp.30-37, 2007 (SCI-Expanded)
- XLVI. **Analysis of micro-graetz problem in a microtube**
Aydin O., Avci M.
NANOSCALE AND MICROSCALE THERMOPHYSICAL ENGINEERING, vol.10, no.4, pp.345-358, 2006 (SCI-Expanded)
- XLVII. **Laminar forced convection with viscous dissipation in a Couette-Poiseuille flow between parallel plates**
Aydin O., Avci M.
APPLIED ENERGY, vol.83, no.8, pp.856-867, 2006 (SCI-Expanded)
- XLVIII. **Thermally developing flow in microchannels**
Aydin O., Avci M.
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, vol.20, no.3, pp.628-632, 2006 (SCI-Expanded)
- XLIX. **Heat and fluid flow characteristics of gases in micropipes**
Aydin O., Avci M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.49, pp.1723-1730, 2006 (SCI-Expanded)
- L. **Viscous-dissipation effects on the heat transfer in a Poiseuille flow**
Aydin O., Avci M.
APPLIED ENERGY, vol.83, no.5, pp.495-512, 2006 (SCI-Expanded)
- LI. **Laminar forced convection with viscous dissipation in a concentric annular duct**
Avci M., Aydin O.
COMPTES RENDUS MECANIQUE, vol.334, no.3, pp.164-169, 2006 (SCI-Expanded)

Books & Book Chapters

I. Convective Heat Transfer Correlations in Some Common Geometries

AYDIN O., AVCI M.

in: Microfluidics Based Microsystems, Kakaç S., Kosoy B., Li D., Pramuanjaroenkij A., Editor, Springer, Dordrecht, pp.1-14, 2009

Refereed Congress / Symposium Publications in Proceedings

I. 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 September 2019

II. 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 September 2019
- III. **UV Lamba Diziliminin Hava Dezenfeksiyonu Üzerindeki Etkisi:Kanal Uygulaması**
ATÇI F., ÇETİN Y. E., AVCI M., AYDIN O.
22. Isı Bilimi ve Tekniği Kongresi (22nd Congress on Thermal Science and Technology), 11 - 14 September 2019
- IV. **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 September 2019
- V. **Mikro boyutlu dikdörtgenel kanallarda kaynamalı akışın deneysel incelenmesi**
MARKAL B., AYDIN O., AVCI M.
VIII. Ulusal Hidrolik Pnömatik Kongresi, İzmir, Turkey, 22 - 25 November 2017, pp.491-498
- VI. **Flow Boiling Characteristics in a Single Rectangular Minichannel**
MARKAL B., CANDAN A., AYDIN O., AVCI M.
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 22 October 2017, pp.2075-2081
- VII. **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, Turkey, 13 - 16 September 2017, pp.313-321
- VIII. **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, Turkey, 13 - 16 September 2017, pp.445-453
- IX. **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, Çorum, Turkey, 13 - 16 September 2017, pp.313-321
- X. **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, Turkey, 13 - 16 September 2017, pp.1363-1377
- XI. **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, Turkey, 13 - 16 September 2017, pp.669-678
- XII. **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, Turkey, 13 - 16 September 2017, pp.304-312
- XIII. **Faz Değiştiren Madde (FDM)-ilaveli Isı Alıcılılarla Elektronik Ekipmanların Soğutulması: Konum Etkisi**
YAZICI M. Y., AVCI M., AYDIN O.
13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 19 - 22 April 2017, pp.1471-1479
- XIV. **Düşey Yüzeyinde Ayrik Isı Kaynakları Bulunan Kanalda Yüzey Işınımının Isı Transferine Etkisi**
SARPER B., BİRİNCİ S., SAĞLAM M., AYDIN O., AVCI M.
13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.1, pp.1027-1035
- XV. **Kare Kesitli Mikrokanallarda Doymuş Kaynamalı Akış Karakteristiklerinin Deneysel İncelenmesi**
MARKAL B., AYDIN O., AVCI M.
13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.2, pp.1433-1442
- XVI. **Faz Değiştiren Madde (FDM)-İlaveli Isı Alıcılarla Elektronik Ekipmanların Soğutulması: Konum Etkisi**
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13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.2, pp.1471-1479
- XVII. **DÜŞEY YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN KANALDA YÜZEY IŞINIMININ ISI TRANSFERİNE ETKİSİ**
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- XVIII. **Minikanallarda Doymuş Kaynamalı Akış Karakteristiklerinin Deneysel İncelenmesi**
CANDAN A., MARKAL B., AYDIN O., AVCI M.
13. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 19 - 22 April 2017, vol.2, pp.1483-1494
- XIX. **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
- XX. **Natural Convection Heat Transfer from Discretely Heated Vertical Channel: Effect of the Surface Radiation**
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Proceedings of the 2nd World Congress on Momentum, Heat and Mass Transfer (MHMT'17), Barselona, Spain, 6 - 08 April 2017
- XXI. **Thermal Management Of Electronic Devices With PCM-Based Heat Sink: Effect Of Inclination Angle**
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- XXIII. **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
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **Halka aralık içerisinde faz değiştiren madde (FDM) ile enerji depolama: Kanatçık etkisi**
YAZICI M. Y., AVCI M., AYDIN O., Akgün M.
20. Ulusal Isı Bilimi ve Tekniği Kongresi 2015 (ULIBTK'15), Balıkesir, Turkey, 2 - 05 September 2015, pp.8583-859
- XXVIII. **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
- XXIX. **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
- XXX. **Eşeksenli Yatay Silindirik Bir Halka Aralık İçerisinde Parafinle Gizli Isı Depolama**
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