

Prof. AYTUNÇ EREK

Personal Information

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International Researcher IDs

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ScopusID: 55904179900

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Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Termodinamik (Dr), Turkey 1993 - 1999

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Termodinamik (YI) (Tezli), Turkey 1989 - 1993

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1984 - 1989

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Phase change around a radially finned horizontal cylinder: a conjugate problem, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Termodinamik (Dr), 1999

Postgraduate, Axisymmetric solidification around a coolant-carrying turbe : conjugate problem, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Termodinamik (YI) (Tezli), 1993

Research Areas

Mechanical Engineering, Thermodynamics, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics, Thermal Systems, Thermal machines, Engineering and Technology

Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2013 - Continues

Advising Theses

EREK A., Gıda endüstrisinde ve enerji depolamada kullanılan vakumlu soğutma teknolojisinin performansının değerlendirilmesi, Postgraduate, M.PİRİ(Student), 2022

EREK A., Design, modeling and analysis of solar energy based absorption cooling system, Postgraduate, R.ÖZCAN(Student), 2020

EREK A., Bir soğutma sistemindeki ejektörün sayısal analizi, Postgraduate, O.GÖK(Student), 2020

EREK A., Yeni nesil bir soğutucu akışkanla çalışan buhar sıkıştırma soğutma çevriminde geliştirici olarak ejektör kullanımının sayısal ve deneysel olarak incelenmesi, Doctorate, A.UĞURCAN(Student), 2020

EREK A., Numerical and experimental investigation of a closed circuit cooling tower, Postgraduate, O.DALKIRAN(Student), 2019

EREK A., Natural ventilation design for historic libraries with CFD (computational fluid dynamics) simulation, Postgraduate, Ö.GÜLHAN(Student), 2019

EREK A., Bir deniz pervanesi etrafındaki akışın sayısal incelenmesi, Postgraduate, M.TANER(Student), 2016

EREK A., BAŞARAN T., Investigation of oil flow and heat transfer in transformer radiator, Postgraduate, Ö.KAYMAZ(Student), 2015

EREK A., Kapının açık kaldığı sürece buzdolabına olan ısı transferi ve akışın modellenmesi, Postgraduate, M.ODABAŞI(Student), 2015

EREK A., Levha kanatlı boru tip buharlaştırıcının deneysel ve hesaplamalı akışkanlar dinamiği analizi, Postgraduate, E.URAS(Student), 2014

EREK A., Kapsüllenmiş buz ısı enerji depolama sisteminin sayısal incelenmesi, Postgraduate, M.UZUN(Student), 2014

EREK A., Yatay duran düz levha üzerindeki yoğunlaşmanın sayısal olarak incelenmesi, Postgraduate, S.SEDİN(Student), 2013

EREK A., Sıcak kullanım suyu (SKS) konforu ve verimliliği için bir ısıtma cihazının değişik hidrolik sistemlerinin modellenmesi ve optimizasyonu, Postgraduate, A.UĞURCAN(Student), 2013

EREK A., Thermal analysis and design of an absorption cooling system, Postgraduate, R.ÇAĞRI(Student), 2012

EREK A., Dynamic analysis of sea loads on pipelines on deck of FPSO type offshore structures, Doctorate, T.KAHRAMAN(Student), 2011

EREK A., Soğuk enerji depolama sistemlerinin deneysel ve sayısal incelenmesi, Doctorate, M.AKİF(Student), 2011

EREK A., Design of thermal energy storage systems and experimental and numerical investigation of its working parameters, Postgraduate, M.ÖZDOĞAN(Student), 2010

EREK A., Numerical optimization of a finned tube gas to liquid heat exchanger, Doctorate, L.BİLİR(Student), 2009

EREK A., Serpantin üzerinde buzlu gizli enerji depolama sisteminin tasarımı ve optimizasyonu, Postgraduate, M.AKİF(Student), 2006

Jury Memberships

Competition, TEKNOFEST Çevre ve Enerji Teknolojileri Yarışması, Dokuz Eylül Üniversitesi, August, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **TRNSYS MODEL OF THE COMBI BOILER DOMESTIC HOT WATER CIRCUIT WITH A FOCUS ON THE PARAMETER DEFINITION OF THE PLATE HEAT EXCHANGER**
GÖK O., ATMACA A. U., EREK A., ALTAY H. M.
Isı Bilimi ve Tekniği Dergisi, vol.43, no.2, pp.191-205, 2023 (SCI-Expanded)
- II. **One-dimensional analysis of the convergent-divergent motive nozzle for the two-phase ejector: Effect of the operating and design parameters**
ATMACA A. U., EREK A., EKREN O.
APPLIED THERMAL ENGINEERING, vol.181, 2020 (SCI-Expanded)
- III. **Investigation of the Liquid-Vapor Separator Efficiency on the Performance of the Ejector Used as an Expansion Device in the Vapor-Compression Refrigeration Cycle**
ATMACA A. U., EREK A., EKREN O.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.142, no.1, 2020 (SCI-

Expanded)

- IV. **Passive thermal management of the lithium-ion battery unit for a solar racing car**
Celik A., Coban H., Gocmen S., EZAN M. A., GÖREN A., EREK A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.8, pp.3681-3691, 2019 (SCI-Expanded)
- V. **Impact of the mixing theories on the performance of ejector expansion refrigeration cycles for environmentally-friendly refrigerants**
ATMACA A. U., EREK A., EKREN O.
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.97, pp.211-225, 2019 (SCI-Expanded)
- VI. **Numerical investigation of the flow structures inside mixing section of the ejector**
Metin C., Gok O., ATMACA A. U., EREK A.
ENERGY, vol.166, pp.1216-1228, 2019 (SCI-Expanded)
- VII. **THERMODYNAMIC PERFORMANCE OF THE TRANSCRITICAL REFRIGERATION CYCLE WITH EJECTOR EXPANSION FOR R744, R170, AND R41**
ATMACA A. U., EREK A., EKREN O., ÇOBAN M. T.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.111-127, 2018 (SCI-Expanded)
- VIII. **Experimental and Numerical Investigation of Forced Convection in a Double Skin Facade**
Inan T., Basaran T., EREK A.
ENERGIES, vol.10, no.9, 2017 (SCI-Expanded)
- IX. **Comparison of two numerical approaches to the domestic hot water circuit in a combi boiler appliance**
ATMACA A. U., EREK A., Altay H. M.
ENERGY AND BUILDINGS, vol.127, pp.1043-1056, 2016 (SCI-Expanded)
- X. **EXPERIMENTAL INVESTIGATION OF COOLING PERFORMANCE OF MILK COOLING TANK WITH THE VAPOR COMPRESSED AND SOLAR ABSORPTION (LiCl-H₂O) COOLING SYSTEM**
DEMİR V., GÜNHAN T., Sencan Sahin A., EKREN O., BİLGEN H., EREK A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.1, pp.29-37, 2016 (SCI-Expanded)
- XI. **Graphite nanoplates loading into eutectic mixture of Adipic acid and Sebacic acid as phase change material**
SEKİ Y., Ince S., EZAN M. A., TURGUT A., EREK A.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.140, pp.457-463, 2015 (SCI-Expanded)
- XII. **Investigation of transient behaviour of combi boiler type appliances for domestic hot water**
ATMACA A. U., EREK A., Altay H. M.
Applied Thermal Engineering, vol.82, pp.129-140, 2015 (SCI-Expanded)
- XIII. **Thermal properties of myristic acid/graphite nanoplates composite phase change materials**
Ince S., SEKİ Y., EZAN M. A., TURGUT A., EREK A.
RENEWABLE ENERGY, vol.75, pp.243-248, 2015 (SCI-Expanded)
- XIV. **Development and evaluation of graphite nanoplate (GNP)-based phase change material for energy storage applications**
SEKİ Y., Ince S., EZAN M. A., TURGUT A., EREK A.
International Journal of Energy Research, vol.39, no.5, pp.696-708, 2015 (SCI-Expanded)
- XV. **Experimental exergetic performance evaluation of a novel solar assisted LiCl-H₂O absorption cooling system**
GÜNHAN T., EKREN O., DEMİR V., HEPBAŞLI A., EREK A., Sahin A. S.
ENERGY AND BUILDINGS, vol.68, pp.138-146, 2014 (SCI-Expanded)
- XVI. **Numerical study on solidification process inside annulus in presence of natural convection**
EZAN M. A., EREK A., Dincer I.
INTERNATIONAL JOURNAL OF EXERGY, vol.12, no.4, pp.423-450, 2013 (SCI-Expanded)
- XVII. **Solidification and Melting Periods of an Ice-on-Coil Latent Heat Thermal Energy Storage System**

- EZAN M. A., EREK A.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.134, no.6, 2012 (SCI-Expanded)
- XVIII. **Numerical optimization of a fin-tube gas to liquid heat exchanger**
Bilir L., Ilken Z., EREK A.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.52, pp.59-72, 2012 (SCI-Expanded)
- XIX. **Experimental study on charging and discharging periods of water in a latent heat storage unit**
EZAN M. A., Ozdogan M., EREK A.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.50, no.11, pp.2205-2219, 2011 (SCI-Expanded)
- XX. **Energy and exergy analyses of an ice-on-coil thermal energy storage system**
EZAN M. A., EREK A., Dincer I.
ENERGY, vol.36, no.11, pp.6375-6386, 2011 (SCI-Expanded)
- XXI. **A Study on the Importance of Natural Convection During Solidification in Rectangular Geometry**
EZAN M. A., EREK A., Dincer I.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.133, no.10, 2011 (SCI-Expanded)
- XXII. **Experimental assessment of energy storage via variable speed compressor**
EKREN O., EZAN M. A., EREK A.
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.34, no.6, pp.1424-1435, 2011 (SCI-Expanded)
- XXIII. **ICE THICKNESS MEASUREMENT METHOD FOR THERMAL ENERGY STORAGE UNIT**
EZAN M. A., Cetin L., EREK A.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.31, no.1, pp.1-10, 2011 (SCI-Expanded)
- XXIV. **Energetic and exergetic analysis and assessment of a thermal energy storage (TES) unit for building applications**
EZAN M. A., Ozdogan M., GÜNERHAN H., EREK A., Hepbasli A.
ENERGY AND BUILDINGS, vol.42, no.10, pp.1896-1901, 2010 (SCI-Expanded)
- XXV. **Heat Transfer and Pressure Drop Characteristics of Fin-Tube Heat Exchangers with Different Types of Vortex Generator Configurations**
Bilir L., Ozerdem B., EREK A., Ilken Z.
JOURNAL OF ENHANCED HEAT TRANSFER, vol.17, no.3, pp.243-256, 2010 (SCI-Expanded)
- XXVI. **Entropy generation during a phase-change process in a parallel plate channel**
Orhan M. F., EREK A., Dincer I.
THERMOCHIMICA ACTA, vol.489, pp.70-74, 2009 (SCI-Expanded)
- XXVII. **Numerical heat transfer analysis of encapsulated ice thermal energy storage system with variable heat transfer coefficient in downstream**
EREK A., Dincer I.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.52, pp.851-859, 2009 (SCI-Expanded)
- XXVIII. **A New Approach to Energy and Exergy Analyses of Latent Heat Storage Unit**
EREK A., Dincer I.
HEAT TRANSFER ENGINEERING, vol.30, no.6, pp.506-515, 2009 (SCI-Expanded)
- XXIX. **An approach to entropy analysis of a latent heat storage module**
EREK A., Dincer I.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.47, no.8, pp.1077-1085, 2008 (SCI-Expanded)
- XXX. **Experimental and numerical study on charging processes of an ice-on-coil thermal energy storage system**
Erek A., Ezan M. A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.31, no.2, pp.158-176, 2007 (SCI-Expanded)
- XXXI. **Effect of geometrical parameters on heat transfer and pressure drop characteristics of plate fin and tube heat exchangers**
Erek A., Ozerdem B., Bilir L., Ilken Z.
APPLIED THERMAL ENGINEERING, vol.25, pp.2421-2431, 2005 (SCI-Expanded)

- XXXII. **Experimental and numerical investigation of thermal energy storage with a finned tube**
Erek A., Ilken Z., Acar M.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.29, no.4, pp.283-301, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Ejektör Genleştiricili Soğutma Çevriminde Sıvı-Buhar Ayırıcı Verimliliğinin R134a, R1234yf ve R1234ze(E) Soğutkanları için Farklı Çalışma Koşullarında Teorik Olarak İncelenmesi**
ATMACA A. U., EREK A., EKREN O.
Soğutma Dünyası, 2023 (Peer-Reviewed Journal)
- II. **Model of the combi boiler appliance in TRNSYS for domestic hot water circuit: Experimental and numerical validations of economic mode simulations**
Gök O., ATMACA A. U., Altay H. M., EREK A.
International journal of energy studies (Online), vol.8, no.1, pp.15-38, 2023 (Peer-Reviewed Journal)
- III. **Numerical Estimation of Film Thickness With an Air-Assisted Spray Gun**
Baytok Y. M., Erek A., Saf O.
Engineering Transactions, vol.71, no.2, pp.241-263, 2023 (Scopus)
- IV. **2D Numerical Investigation of the Flow Modul of a Latent Heat Thermal Energy Storage Tank**
YILDIRIM N. H., KAHRAMAN Y. E., YILMAZ A. B., Alptekin E., TOKUÇ A., Ezan M. A., Erek A.
Tesisat Mühendisliği, vol.2019, no.169, pp.7-14, 2019 (Peer-Reviewed Journal)
- V. **Sabit Alanda ve Sabit Basıncıta Karışımli Ejektör Modellerinin Performans Değerlendirmesi**
ATMACA A. U., EREK A., EKREN O.
Mühendis ve Makina, vol.59, no.690, pp.89-118, 2018 (Peer-Reviewed Journal)
- VI. **Investigation of new generation refrigerants under two different ejector mixing theories**
ATMACA A. U., EREK A., EKREN O.
ENERGY PROCEDIA, vol.136, pp.394-401, 2017 (Peer-Reviewed Journal)
- VII. **THERMAL ENERGY STORAGE WITH PHASE CHANGE IN CYLINDRICAL COORDINATES: ONE DIMENSIONAL NUMERICAL INVESTIGATION**
ÖZDOĞAN M., Ezan M. A., Erek A.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.18, no.53, pp.178-191, 2016 (Peer-Reviewed Journal)
- VIII. **Enerji depolama sistemlerinde değişken hızlı kompresör kullanımının deneysel incelenmesi**
EKREN O., EZAN M. A., EREK A.
Soğutma Dünyası, no.56, pp.54-59, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental Studies on Energy and Exergy-based Assessments of a Freezer**
Vardar B., Bovatekin F. B., Becermen Y. M., Gök O., Alptekin E., Ezan M. A., Erek A.
14th International Exergy, Energy, and Environment Symposium (IEEES-14), İstanbul, Turkey, 24 - 27 December 2023, pp.173-176
- II. **3D Steady-State and Transient Numerical Studies of a Static Freezer**
Bilgiç S., Cankılıç E., Gülmez A., Gök O., Alptekin E., Ezan M. A., Erek A.
14th International Exergy, Energy, and Environment Symposium (IEEES-14), İstanbul, Turkey, 24 - 27 December 2023, pp.177-181
- III. **ENERGETIC AND EXERGETIC ANALYSIS OF SOLAR-BASED SENSIBLE THERMAL ENERGY STORAGE SYSTEM IN CHARGING PROCESS USING TRNSYS**
Gök O., Alptekin E., Ezan M. A., Erek A.
2nd WORLD ENERGY STORAGE CONFERENCE: WESC-2022, 18 December 2022, pp.225-229

- IV. **Design and analysis of battery cooling with cold plate for electric vehicles**
Alpaslan E., Baytok Y. M., KARAOĞLAN M. U., ÇOLPAN C. Ö., EREK A.
10th Global Conference on Global Warming (GCGW), Sharjah, United Arab Emirates, 07 November 2022, pp.110
- V. **Effects of the Methods for the Determination of the Motive Nozzle Outlet Pressure on the Performance Analyses of the Ejector Expansion Refrigeration Cycle**
Atmaca A. U., Ereğ A., Ekren O.
XV INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM, 20 September 2022
- VI. **Evaluation of the Ejector Component and Separator Efficiencies under Constant Area Mixing Theory: Design Considerations**
Atmaca A. U., Ereğ A., Ekren O.
XV INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM, İzmir, Turkey, 20 - 23 September 2022
- VII. **The Use of TRNSYS as a Simulation Tool for the Domestic Hot Water Performance Evaluations of the Combi Boilers**
GÖK O., ATMACA A. U., ALTAY H. M., EREK A.
2nd International Conference on Energy, Environment and Storage of Energy, ICEESEN-2022, Kayseri, Turkey, 1 - 03 September 2022
- VIII. **NATURAL CONVECTION-DRIVEN PHASE CHANGE INSIDE CYLINDRICAL ANNULUS**
Okan G., Alptekin E., Ezan M. A., Ereğ A.
5th International Symposium on Convective Heat and Mass Transfer (CONV-22), İzmir, Turkey, 05 June 2022, pp.303-310
- IX. **Numerical Analysis of The Ejector Performance with A Hydrofluoroolefin Group Refrigerant**
GÖK O., EREK A.
International Symposium on Energy Management and Sustainability (ISEMAS-22), İstanbul, Turkey, 6 - 08 August 2022, vol.1, pp.1-6
- X. **Performance Prediction of Model Propellers on Two Different Commercial CFD Solvers**
GÖKSU B., GÖK O., ERGİNER K. E., TAKINACI A. C., EREK A.
2nd INTERNATIONAL CONGRESS ON SHIP AND MARINE TECHNOLOGY, İstanbul, Turkey, 16 - 18 September 2021, pp.529-539
- XI. **Ejektör Genleştircili Soğutma Çevriminde Sıvı-Buhar Ayırıcı Verimliliğinin R134a, R1234yf Ve R1234ze(E) Soğutkanları İçin Farklı Çalışma Koşullarında Teorik Olarak İncelenmesi**
ATMACA A. U., EREK A., EKREN O.
14.Ulusal Tesisat Mühendisliği Kongresi, Turkey, 17 - 20 April 2019
- XII. **Ejektör Kısım Verimliliklerinin Ejektör Genleştircili Transkritik CO2 Soğutma Çevrimi Üzerindeki Etkilerinin Gaz Soğutucu Basıncına Ve Çıkış Sıcaklığına Göre İncelenmesi**
ATMACA A. U., EREK A., EKREN O., ÇOBAN M. T.
14.Ulusal Tesisat Mühendisliği Kongresi, Turkey, 17 - 20 April 2019
- XIII. **Preliminary Design of the Two-Phase Ejector under Constant Area Mixing Assumption for 5 kW Experimental System**
ATMACA A. U., EREK A., EKREN O.
4th International Conference on Advances on Clean Energy Research (ICACER), Coimbra, Portugal, 5 - 07 April 2019, vol.103
- XIV. **Parametric Investigation of Supercritical Refrigeration Cycle for R744 and R170**
ATMACA A. U., EREK A., ÇOBAN M. T., EKREN O.
7th Global Conference on Global Warming-2018, 24 - 28 June 2018
- XV. **Thermodynamic Assessment Of Ejector Expansion Refrigeration Cycle Under Reversible Ejector Assumption**
ATMACA A. U., EREK A., EKREN O.
7th Global Conference on Global Warming-2018, 24 - 28 June 2018
- XVI. **Experimental and Numerical Investigation of 18650 Lithium - Ion Battery Cells**
Çelik A., Göçmen S., Çoban H., Beştav M., EREK A., GÖREN A., EZAN M. A.
7th Global Conference on Global Warming (GCGW-2018), İzmir, Turkey, 24 - 28 June 2018, pp.205-208

- XVII. **1D model of a two-phase ejector to be used in the ejector expansion refrigeration cycle**
ATMACA A. U., EREK A., ÇOBAN M. T., EKREN O.
ECOS 2018, 17 - 22 June 2018
- XVIII. **BİR GİZLİ ISIL ENERJİ DEPOLAMA TANKINA AİT AKIŞ MODÜLÜNÜN İKİ BOYUTLU SAYISAL İNCELENMESİ**
YILDIRIM N. H., EREK A., EZAN M. A., BİLİR L.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018
- XIX. **Küresel Kapsüllenmiş Faz Değişim Malzemesinin Depolama ve Geri Kullanım Performansının Deneysel İncelenmesi**
HACIPAŞAOĞLU S. G., EZAN M. A., BİLİR L., ALPTEKİN E., EREK A.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Turkey, 18 - 20 April 2018
- XX. **COMPREHENSIVE PERFORMANCE COMPARISON OF R290 AND R600a IN ANEJECTOR EXPANSION REFRIGERATION CYCLE**
ATMACA A. U., EREK A., EKREN O.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018
- XXI. **Investigating The Effects Of The Ejector Section Efficiencies On The Overall Cycle Performance**
ATMACA A. U., EREK A., EKREN O.
ULIBTK'17 21. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- XXII. **Küresel Kapsül İçerisindeki Doğal Taşınımın Sayısal İncelenmesi**
YAVUZ F. E., EZAN M. A., EREK A., ALPTEKİN E.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- XXIII. **Silindirik Halkasal Boşluktaki Doğal Taşınımın Sayısal Modellenmesi**
GENÇER A. E., EZAN M. A., ALPTEKİN E., EREK A.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- XXIV. **Sabit Alanda Ve Sabit Basıncıta Karışımli Ejektör Modellerinin Performans Değerlendirmesi**
ATMACA A. U., EREK A., EKREN O.
13. Ulusal Tesisat Mühendisliği Kongresi, Turkey, 19 - 22 April 2017
- XXV. **Bir Gizli Isıl Enerji Depolama Tankının Akış Modülünün 2 Boyutlu Sayısal İncelenmesi**
YILDIRIM N. H., KAHRAMAN E., YILMAZ A. B., ALPTEKİN E., TOKUÇ A., EZAN M. A., EREK A.
13. Ulusal Tesisat Mühendisliği Kongresi (TESKON 2017), İzmir, Turkey, 19 - 22 April 2017, vol.1, pp.771-780
- XXVI. **Investigation of new generation refrigerants under two different ejector mixing theories**
ATMACA A. U., EREK A., EKREN O.
4th International Conference on Energy and Environment Research (ICEER), Porto, Portugal, 17 - 20 July 2017, vol.136, pp.394-401
- XXVII. **PERFORMANCE ANALYSES OF ENVIRONMENTALLY FRIENDLY LOW GWP REFRIGERANTS**
ATMACA A. U., EREK A., EKREN O.
3rd International Conference on Thermophysical and Mechanical Properties of Advanced Materials, 1 - 03 September 2016
- XXVIII. **Çift Cidarlı Cephelelerdeki Akış ve Isı Transferinin Sayısal Analizi**
İNAN T., EZAN M. A., BAŞARAN T., EREK A.
12. Ulusal Tesisat Mühendisliği Kongresi (TESKON 2015), İzmir, Turkey, 8 - 11 April 2015, pp.2183-2191
- XXIX. **Phase Change Properties of Adipic Acid-sebacic Acid Binary Mixtures**
SEKİ Y., İNCE Ş., EZAN M. A., EREK A.
International Conference on Heat Transfer and Fluid Flow (HTFF'14), Prag, Czech Republic, 11 - 12 August 2014
- XXX. **Some Investigations on Arachidic Acid/Graphene Composite PCMs**
SEKİ Y., İNCE Ş., UZUN M., EZAN M. A., ÇETİN L., TURGUT A., EREK A.
International Conference on Heat Transfer and Fluid Flow (HTFF'14), Prag, Czech Republic, 11 - 12 August 2014
- XXXI. **A Study on Evaluation of Effective Thermal Conductivity for Spherical Capsules**
EZAN M. A., UZUN M., EREK A.
10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2014), Orlando, United States Of America, 14 - 16 July 2014

- XXXII. **Improvement the Thermal Performance of Myristic Acid**
EZAN M. A., İNCE Ş., SEKİ Y., TURGUT A., ÇETİN L., EREK A.
10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2014), Orlando, United States Of America, 14 - 16 July 2014
- XXXIII. **Bir Boyutlu Faz Değişimi Probleminin Sayısal İncelenmesi**
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