

## Prof. HAYDAR ARAS

### Personal Information

**Email:** haras@ogu.edu.tr

**Web:** <https://avesis.ogu.edu.tr/haras>

### International Researcher IDs

ORCID: 0000-0001-8131-6426

ScopusID: 6603029093

Yoksis Researcher ID: 17864

### Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), Turkey 1991 - 1996  
Postgraduate, Anadolu University, Institute Of Science, Makine Mühendisliği (YI) (Tezli), Turkey 1989 - 1991  
Undergraduate, Anadolu University, Faculty Of Engineering-Architecture, Department Of Mechanical Engineering, Turkey 1984 - 1989

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Doğal gaz yakan sistemlerde baca gazından ısı geri kazanımı, Anadolu University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1991

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ, 2012 - Continues

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ, 2006 - 2012

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ, 1997 - 2006

### Academic and Administrative Experience

Member of the Senate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ

BÖLÜMÜ, 2023 - Continues

Director of the Center, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ, 2019 - 2022

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Makine Mühendisliği Bölümü, 2007 - 2010

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Makine Mühendisliği Bölümü, 1997 - 1999

## Courses

Isı Transferi, Undergraduate, 2022 - 2023, 2021 - 2022

BİLEŞİK ISI GÜÇ SİSTEMLERİ, Undergraduate, 2022 - 2023, 2019 - 2020, 2015 - 2016

MÜHENDİSLİK TERMODİNAMİĞİ - I, Undergraduate, 2022 - 2023, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2006 - 2007, 2005 - 2006

Isı Transferi, Undergraduate, 2022 - 2023, 2021 - 2022

KOJENERASYON SİSTEMLERİ, Postgraduate, 2022 - 2023, 2008 - 2009, 2007 - 2008, 2005 - 2006, 2004 - 2005

BİLEŞİK ISI GÜÇ SİSTEMLERİ, Undergraduate, 2022 - 2023, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016

GÜNEŞ ENERJİSİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2012 - 2013, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

YENİLENEBİLİR ENERJİ KAYNAKLARI SİSTEM TAS. ARAŞ., Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

ISI TRANSFERİ, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

ISI EKONOMİSİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

TOPLAM KALİTE YÖNETİMİ, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

MAKİNA LAB. - II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004

MAKİNE LAB. - II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

MÜHENDİSLİK TERMODİNAMİĞİ - II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2006 - 2007, 2005 - 2006

YENİLENEBİLİR ENERJİ KAYNAKLARI SİSTEM TAS. ARAŞ., Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

MAKİNE LAB. - I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2001 - 2002

TERMODİNAMİK, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

MAKİNE MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2009 - 2010

MAKİNE MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2009 - 2010

TOPLAM KALİTE YÖNETİMİ, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

TERMODİNAMİK, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 -

2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

TERMODİNAMİK, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

MAKİNE LAB. - I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2001 - 2002

BİLEŞİK ISI GÜÇ SİSTEMLERİ, Undergraduate, 2013 - 2014, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

GÜNEŞ ENERJİSİ, Undergraduate, 2013 - 2014, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

ISI EKONOMİSİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

ISI TRANSFERİ, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

BUHAR KAZANLARI, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

BUHAR KAZANLARI, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002

TOPLUMA HİZMET UYGULAMALARI - II, Undergraduate, 2009 - 2010

TOPLUMA HİZMET UYGULAMALARI - II, Undergraduate, 2009 - 2010

BİLEŞİK ISI GÜÇ SİSTEMLERİ, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2004 - 2005, 2003 - 2004, 2001 - 2002

TOPLUMA HİZMET UYGULAMALARI - I, Undergraduate, 2009 - 2010

TOPLUMA HİZMET UYGULAMALARI - I, Undergraduate, 2009 - 2010

GÜNEŞ ISINIM HESAP MODELLEMESİ, Postgraduate, 2009 - 2010, 2008 - 2009, 2006 - 2007, 2005 - 2006, 2004 - 2005

## **Jury Memberships**

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Technical University, January, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Osmangazi University, November, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Technical University, September, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Osmangazi University, July, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Technical University, May, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bilecik Seyh Edebali University, January, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Anadolu Üniversitesi, April, 2017

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

### **I. Advanced exergy analysis of a trigeneration system with a diesel-gas engine operating in a refrigerator plant building**

AÇIKKALP E., ARAS H., HEPBAŞLI A.

ENERGY AND BUILDINGS, vol.80, pp.268-275, 2014 (SCI-Expanded)

### **II. Advanced exergy analysis of an electricity-generating facility using natural gas**

AÇIKKALP E., ARAS H., HEPBAŞLI A.

ENERGY CONVERSION AND MANAGEMENT, vol.82, pp.146-153, 2014 (SCI-Expanded)

- III. **Advanced exergoeconomic analysis of a trigeneration system using a diesel-gas engine**  
AÇIKKALP E., ARAS H., HEPBAŞLI A.  
APPLIED THERMAL ENGINEERING, vol.67, pp.388-395, 2014 (SCI-Expanded)
- IV. **Advanced exergoenvironmental assessment of a natural gas-fired electricity generating facility**  
AÇIKKALP E., ARAS H., HEPBAŞLI A.  
ENERGY CONVERSION AND MANAGEMENT, vol.81, pp.112-119, 2014 (SCI-Expanded)
- V. **Advanced exergoeconomic analysis of an electricity-generating facility that operates with natural gas**  
AÇIKKALP E., ARAS H., HEPBAŞLI A.  
ENERGY CONVERSION AND MANAGEMENT, vol.78, pp.452-460, 2014 (SCI-Expanded)
- VI. **Thermodynamic and thermoeconomic analyses of a trigeneration (TRIGEN) system with a gas-diesel engine: Part I - Methodology**  
Balli O., ARAS H., Hepbasli A.  
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.11, pp.2252-2259, 2010 (SCI-Expanded)
- VII. **Thermodynamic and thermoeconomic analyses of a trigeneration (TRIGEN) system with a gas-diesel engine: Part II - An application**  
Balli O., ARAS H., Hepbasli A.  
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.11, pp.2260-2271, 2010 (SCI-Expanded)
- VIII. **Exergoeconomic analysis of a combined heat and power (CHP) system**  
Balli O., ARAS H., Hepbasli A.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.32, no.4, pp.273-289, 2008 (SCI-Expanded)
- IX. **Exergoeconomic analysis of a combined heat and power system with the micro gas turbine (MGTCHP)**  
ARAS H., Balli O.  
ENERGY EXPLORATION & EXPLOITATION, vol.26, no.1, pp.53-70, 2008 (SCI-Expanded)
- X. **Exergetic and exergoeconomic analysis of an Aircraft Jet Engine (AJE)**  
Balli O., ARAS H., ARAS N., Hepbasli A.  
INTERNATIONAL JOURNAL OF EXERGY, vol.5, pp.567-581, 2008 (SCI-Expanded)
- XI. **Energetic and exergetic performance evaluation of a combined heat and power system with the micro gas turbine (MGTCHP)**  
Balli O., ARAS H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.31, no.14, pp.1425-1440, 2007 (SCI-Expanded)
- XII. **Determination of optimum insulation thicknesses of the external walls and roof (ceiling) for Turkey's different degree-day regions**  
Sisman N., Kahya E., Aras N., ARAS H.  
ENERGY POLICY, vol.35, no.10, pp.5151-5155, 2007 (SCI-Expanded)
- XIII. **Exergetic performance evaluation of a combined heat and power (CHP) system in Turkey**  
Balli O., ARAS H., Hepbasli A.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.31, no.9, pp.849-866, 2007 (SCI-Expanded)
- XIV. **Estimating and statistically analyzing the global solar radiation potential over big cities in Turkey**  
Balli O., ARAS H., ARAS N., Hepbasli A.  
ENERGY EXPLORATION & EXPLOITATION, vol.25, no.4, pp.301-311, 2007 (SCI-Expanded)
- XV. **Energetic analyses of the combined heat and power (CHP) system**  
Balli O., ARAS H.  
ENERGY EXPLORATION & EXPLOITATION, vol.25, no.1, pp.39-62, 2007 (SCI-Expanded)
- XVI. **Estimating the horizontal diffuse solar radiation over the Central Anatolia Region of Turkey**  
ARAS H., Balli O., Hepbasli A.  
ENERGY CONVERSION AND MANAGEMENT, vol.47, pp.2240-2249, 2006 (SCI-Expanded)
- XVII. **Global solar radiation potential, part 2: Statistical analysis**  
ARAS H., Balli O., Hepbasli A.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.1, no.3, pp.317-326, 2006 (SCI-Expanded)

- XVIII. **Global solar radiation potential, part 1: Model development**  
ARAS H., Balli O., Hepbasli A.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.1, no.3, pp.303-315, 2006 (SCI-Expanded)
- XIX. **Evaluation of alternative fuels for residential heating in Turkey using analytic network process (ANP) with group decision-making**  
Erdogmus S., ARAS H., Koc E.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.10, no.3, pp.269-279, 2006 (SCI-Expanded)
- XX. **Multi-criteria selection for a wind observation station location using analytic hierarchy process**  
ARAS H., Erdogmus S., Koc E.  
RENEWABLE ENERGY, vol.29, no.8, pp.1383-1392, 2004 (SCI-Expanded)
- XXI. **Forecasting residential natural gas demand**  
ARAS H., Aras N.  
ENERGY SOURCES, vol.26, no.5, pp.463-472, 2004 (SCI-Expanded)
- XXII. **Condition and development of the cogeneration facilities based on autoproduction investment model in Turkey**  
ARAS H.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.7, no.6, pp.553-559, 2003 (SCI-Expanded)
- XXIII. **Wind energy status and its assessment in Turkey**  
ARAS H.  
RENEWABLE ENERGY, vol.28, no.14, pp.2213-2220, 2003 (SCI-Expanded)
- XXIV. **A technical note on "Modeling of gas demand using degree-day concept: Case study for Ankara"**  
ARAS H.  
ENERGY SOURCES, vol.24, no.7, pp.611-612, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Modelling of Turkey's energy consumption using Artificial Neural Networks**  
Şişman N., SOFUOĞLU M. A., ARAS N., ARAS H.  
Advanced Engineering Forum, 2022 (Peer-Reviewed Journal)
- II. **Pnömatik Sistemlerde Enerji Verimliliği**  
ZAİM A., ARAS H.  
Mühendis ve Makina, vol.61, no.698, pp.31-45, 2020 (Peer-Reviewed Journal)
- III. **Eskişehir'de rüzgar ve güneş enerjisi potansiyelinin belirlenmesi**  
Yıldızay H. D., Aras H., Yılmaz V.  
Dicle University Journal of Engineering, vol.5, no.1, pp.49-58, 2014 (Peer-Reviewed Journal)
- IV. **STATISTICAL ANALYSIS OF WIND SPEED DATA**  
YILMAZ V., ARAS H., ÇELİK H. E.  
Eskişehir Osmangazi Üniversitesi Müh.Mim.Fak.Dergisi, vol.18, no.2, pp.1-13, 2005 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Bileşik Isı Güç Sistemleri, Otoprodüktör Uygulaması**  
ARAS H.  
in: Elektrik Enerjisi, Üretimi, İletimi ve Dağıtımı, Süleyman Demir, Editor, Anadolu Üniversitesi Basımevi, Eskişehir, pp.190-213, 2020
- II. **Enerji Yoğun Sanayi Sektörleri**  
ARAS H.  
in: Enerji Yönetimi ve Politikaları, Murat Tanışlı, Yüksel Ergün, Editor, Anadolu Üniversitesi Basımevi, Eskişehir, pp.81-96, 2018

- III. **Enerji Yatırım Modelleri**  
ARAS H.  
in: Enerji Yönetimi ve Politikaları, Murat Tanışlı, Yüksel Ergün, Editor, Anadolu Üniversitesi Basımevi, Eskişehir, pp.131-148, 2018
- IV. **Tükiye’de ve Avrupa Birliği Ülkelerinde Enerji Yönetim Politikalarının Karşılaştırılma**  
ARAS H.  
in: Enerji Yönetim ve Politikaları, Murat Tanışlı, Yüksel Ergün, Editor, Anadolu Üniversitesi Basımevi, Eskişehir, pp.171-193, 2018
- V. **Enerji Talep Tahmin Yöntemleri**  
ARAS H.  
in: Enerji Yönetimi ve Politikaları, Murat Tanışlı, Yüksel Ergün, Editor, Anadolu Üniversitesi Basımevi, Eskişehir, pp.151-168, 2018
- VI. **Hidroelektrik Enerji Santralleri**  
ARAS H.  
in: Elektrik Enerjisi Üretimi, Prof.Dr.Süleyman Demir, Editor, Anadolu Üniversitesi, Eskişehir, pp.90-113, 2016
- VII. **Taşımacılık Düzenlemeleri**  
ARAS H.  
in: Ulaştırma Sistemleri, Doç.Dr.Nil Aras, Editor, Anadolu Üniversitesi, Eskişehir, pp.174-197, 2016
- VIII. **Deniz ve Su Yolu Taşımacılığı**  
ARAS H.  
in: Ulaştırma Sistemleri, Doç.Dr.Nil Aras, Doç.Dr. Ender Gerede, Editor, Anadolu Üniversitesi, Eskişehir, pp.106-129, 2016
- IX. **Bileşik Isı ve Güç Üretimi, Otoprodüktör Uygulaması**  
ARAS H.  
in: Elektrik Enerjisi Üretimi, Prof.Dr.Süleyman Demir, Editor, Anadolu Üniversitesi, Eskişehir, pp.166-189, 2016

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Examination of Polished Marble Surface by Using the Atomic Force Microscopy**  
ANKARA H., YEREL KANDEMİR S., ARAS H., PAT S.  
25th International Mining Congress and Exhibition of Turkey New Trends in Mining, 11 - 14 April 2017
- II. **Food Miles and Applications**  
Uğurluoğlu E., ARAS H., ARAS N.  
International Conference On Innovations In Engineering And Technology (ICIET-17) March 22-23, 2017 London (UK), Londrina, Brazil, 22 - 23 March 2017, pp.224-231
- III. **Investigation of morphology of polished marble surface by Atomic Force Microscopy AFM**  
ANKARA H., ARAS H., ÇELİKÜREK İ., YEREL KANDEMİR S.  
WMES 2016, Prague, Czech Republic, 5 - 09 September 2016
- IV. **A statistical method approach for wind energy potential estimation**  
YILDIZAY H. D., ARAS N., YILMAZ V., ARAS H.  
WMES 2016, Prague, Czech Republic, 5 - 09 September 2016
- V. **The Effect of Break Edge Configuration on the Aerodynamics of Anti-Ice Jet Flow**  
Tatar V., Yildizay H., Aras H.  
9th International Conference on Experimental Fluid Mechanics, EFM 2014, Cesky Krumlov, Czech Republic, 18 - 21 November 2014, vol.92
- VI. **Konutlarda enerji ve su tüketiminin tahmini**  
ARAS H., SOFUOĞLU M. A.  
Üretim araştırmaları sempozyumu, Turkey, 27 - 29 September 2012
- VII. **İmpotence of Examining Weibull Distribution Fitting in Determining Wind Power**  
ARSLAN M. S. T., AÇIKKALP E., ARAS H., YILMAZ V.

10th International Conference on Sustainable Energy Technologies (SET2011), 4 - 07 September 2011

- VIII. **Estimation of Monthly Wind Speed by Using Arima Exponential Smoothing Technique**  
YILMAZ V., ARAS H., ARAS N., ÇELİK H. E.  
The First Cappadocia International Mechanical Engineering Symposium, 14 - 16 July 2004
- IX. **Estimation of Monthly Wind Speed by Using Least Squares and Exponential Smoothing Technique**  
YILMAZ V., ARAS H., ARAS N., ÇELİK H. E.  
The First Cappadocia International Mechanical Engineering Symposium, 14 - 16 June 2004, pp.118-120
- X. **Estimation of Monthly Wind Speeds of Eskişehir, Turkey**  
ARAS H., YILMAZ V., ÇELİK H. E.  
First International Exergy, Energy and Environmental Symposium, 13 - 17 July 2003, pp.1043-1045
- XI. **Baca Gazlarındaki Geri Kazanılabilir Enerji ve Yüksek Sıcaklık Uygulamaları**  
ARAS H.  
Çevre ve Enerji Kongresi Antalya Sempozyumu, Antalya, Turkey, 14 - 15 April 1997, pp.208-213
- XII. **Türkiye’xxde Doğlagaz ve Çevre Politikaları**  
ARAS H.  
Isparta da Hava Kirliliği ve Doğalgaz 97, Turkey, 1 - 02 January 1997, pp.215-219
- XIII. **Güneş Enerjisi ile Soğutma (Absorbsiyonlu) Sistemi Uygulaması**  
ARAS H., TANER K.  
5. Türk Alman Enerji Sempozyumu, İzmir, Turkey, 19 - 21 April 1995, pp.58-67
- XIV. **Doğal Gaz Yakan Sistemlerde Atık Isı Kazanımı**  
ARAS H., Taner K.  
8. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 1 September - 04 January 1991, pp.105-110

## Supported Projects

ARAS H., ZAİM A., ÜNLÜ C. G., Project Supported by Higher Education Institutions, Piston Hareketli Aktif Manyetik Rejeneratif Soğutucu Tasarımı ve Performans Değerlendirmesi, 2021 - Continues

ARAS H., Project Supported by Higher Education Institutions, Rüzgar ve Güneş Enerjisinden, Elektrik Üreten Sistemlerin İncelenmesi, 2016 - 2016

ARAS H., Project Supported by Higher Education Institutions, Hava yönlendirici kanat üzerindeki buzlanma önleyici deliklere uygulanan köşe yuvarlatma işleminin akışa etkisinin araştırılması, 2013 - 2016

Aras H., Industrial Thesis Project, Helisel Güneş ve Rüzgar Türbini GÜNRÜZ, 2013 - 2015

ARAS H., Project Supported by Higher Education Institutions, Eskişehir’ de Enerji Üretimi Amaçlı Rüzgar Hız ve Güneş Işınım Potansiyellerinin Tespiti ve Analizi, 2010 - 2011

Aras H., Project Supported by Higher Education Institutions, Eskişehirde Enerji Üretimi Amaçlı Rüzgar Hız ve Güneş Işınım Potansiyellerinin Tespiti ve Analizi, 2010 - 2011

Aras H., Project Supported by Higher Education Institutions, Isı Pompalı Şofben, 1995 - 1996

## Patent

Aras H., PİSTON HAREKETLİ AKTİF MANYETİK REJENERATİF İKLİMLENDİRME CİHAZI, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: TR2021 013908 U4 , Standard Registration, 2023

## Activities in Scientific Journals

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Editor, 2022 - Continues

## Scientific Refereeing

Energy, SCI Journal, January 2021  
Energy, SCI Journal, December 2020  
Energy, SCI Journal, August 2020  
Energy, SCI Journal, June 2019  
Energy, SCI Journal, June 2018  
Energy, SCI Journal, May 2018  
Energy, SCI Journal, November 2017  
Energy, SCI Journal, April 2017  
Energy, SCI Journal, March 2017  
Energy, SCI Journal, February 2017  
Energy, SCI Journal, February 2017  
Energy, SCI Journal, January 2017  
Energy, SCI Journal, May 2016  
Energy, SCI Journal, February 2016  
Energy, SCI Journal, September 2015  
Energy, SCI Journal, February 2014  
Energy, SCI Journal, December 2013  
Energy, Journal Indexed in SCI-E, June 2013  
Energy, SCI Journal, February 2013  
Energy, SCI Journal, December 2012  
Energy, SCI Journal, August 2012  
Energy, SCI Journal, April 2012  
Energy, SCI Journal, January 2012  
Energy, SCI Journal, October 2011  
Energy, SCI Journal, September 2011  
Energy, SCI Journal, June 2011  
Energy, SCI Journal, April 2011  
Energy, SCI Journal, March 2011  
Energy, SCI Journal, November 2010  
Energy, SCI Journal, July 2007

## Metrics

Publication: 58  
Citation (WoS): 1307  
Citation (Scopus): 1524  
H-Index (WoS): 18  
H-Index (Scopus): 19

## Non Academic Experience

Eskişehir Osmangazi Üniversitesi  
ESKİŞEHİR OSMANGAZİ ÜNİVERSİTESİ  
Eskişehir Osmangazi Üniversitesi  
MSB Teknik Hizmetler D.Bşk.lığı  
Eskişehir Osmangazi Üniversitesi  
Eskişehir Osmangazi Üniversitesi



