

# Prof. HAYDAR KÜÇÜK

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 1998 - 2003

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 1995 - 1998

Undergraduate, Yildiz Technical University, Kocaeli Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1989 - 1993

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Eş veya Kaçık Merkezli Halka Kesite Sahip Eğrisel Kanallarda Akış ve Isı Transferinin Sayısal İncelenmesi, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2003

Postgraduate, Dairesel Kesitli Borularda Geçici Rejimde Isı Transferinin Deneysel İncelenmesi, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1998

## Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Computational fluid dynamics, Thermal Systems, Engineering and Technology

## Academic Titles / Tasks

Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - Continues

Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2017 - 2020

Associate Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2017

Assistant Professor, Recep Tayyip Erdogan University, Turgut Kıran Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği, 2011 - 2012

Assistant Professor, Gumushane University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2009 - 2011  
Assistant Professor, Karadeniz Technical University, Sürmene Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2007 - 2009  
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 1998 - 2003  
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 1995 - 1998

## Academic and Administrative Experience

Ethics Committee Member, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - Continues  
Head of Department, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - Continues  
Fakülte Kurulu Üyesi, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - 2022  
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - 2022  
Dean, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2020 - 2022  
University Executive Board Member, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2017 - 2022  
Member of the Senate, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2017 - 2022  
Rektörlük Stratejik Plan Komisyonu Üyesi, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2013 - 2021  
Rektörlük Kalite Komisyonu Üyesi, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2017 - 2020  
Head of Department, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2017 - 2020  
Dean, Recep Tayyip Erdogan University, Mühendislik Fakültesi, 2017 - 2020  
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Fakültesi, 2017 - 2020  
Fakülte Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Fakültesi, 2017 - 2020  
Vice Dean, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2015  
Fakülte Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Fakültesi, 2012 - 2015  
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Fakültesi, 2012 - 2015  
Head of Department, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2014  
Recep Tayyip Erdogan University, 2011 - 2013  
Recep Tayyip Erdogan University, 2011 - 2012  
Recep Tayyip Erdogan University, 2010 - 2011  
Recep Tayyip Erdogan University, 2010 - 2011  
Gumushane University, 2010 - 2011  
Head of Department, Gumushane University, Faculty Of Engineering And Natural Sciences, Department Of Mechanical Engineering, 2009 - 2011  
Head of Department, Gumushane University, Faculty Of Engineering And Natural Sciences, Department Of Mechanical Engineering, 2009 - 2011  
Fakülte Kurulu Üyesi, Gumushane University, Faculty Of Engineering And Natural Sciences, 2009 - 2011  
Deputy Head of Department, Karadeniz Technical University, Sürmene Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2007 - 2009

## Courses

Isı ve Kütle Transferi, Postgraduate, 2020 - 2021, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Boyut Analizi ve Benzerlik, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Soğutma Çevrimleri Tasarımı ve Analizi, Doctorate, 2020 - 2021, 2019 - 2020  
Nemli Hava Termodinamiği, Doctorate, 2020 - 2021, 2019 - 2020  
Akışkanlar Mekaniği, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Isı Transferi, Undergraduate, 2017 - 2018, 2016 - 2017  
Akışkanlar Dinamiği ve Isı Geçişinde Sayısal Yöntemler, Postgraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Taşınım İle Isı Geçişi, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
İleri Akışkanlar Dinamiği, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Fikri ve Sinai Mülkiyet Hakları, Undergraduate, 2016 - 2017  
Isı İletimi, Postgraduate, 2016 - 2017, 2014 - 2015  
Makine Mühendisliğine Giriş, Undergraduate, 2015 - 2016  
Mekanik, Undergraduate, 2011 - 2012  
İleri Mühendislik Termodinamiği, Postgraduate, 2010 - 2011  
Makine Mühendisliğine Giriş, Undergraduate, 2010 - 2011, 2009 - 2010  
Termodinamik, Undergraduate, 2007 - 2008  
Mühendislik Mekaniği, Undergraduate, 2008 - 2009

## Advising Theses

Küçük H., Midilli A., Fındığın dönmeli akışlı akışkan yataklı kızılötesi ışınlı kurutma davranışının deneysel incelenmesi ve matematiksel modellenmesi, Postgraduate, A.ÇİRAK(Student), 2022  
Küçük H., Midilli A., Dönmeli akışlı akışkan yataklı kızılötesi ışınlı yeşil çay kurutma işleminin matematiksel modellenmesi, Postgraduate, Ö.OKUR(Student), 2022  
Küçük H., Midilli A., DÖNMELİ AKIŞLI AKIŞKAN YATAKLI MİKRODALGA YEŞİL ÇAY KURUTUCUNUN İMALATI VE KURUTMA PERFORMANSININ DENEYSEL BELİRLENMESİ, Postgraduate, M.KÖSE(Student), 2022  
Küçük H., Regülatör tipi bir hidroelektrik santralin tasarımı ve ekonomik analizi, Postgraduate, A.CÜCE(Student), 2019  
Küçük H., Bazı sebze ve meyvelerin mikrodalga kurutma davranışının deneysel araştırılması ve matematiksel modellenmesi, Postgraduate, M.ŞİMŞEK(Student), 2018

## Jury Memberships

Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2021  
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, January, 2021  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, November, 2020  
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, November, 2020  
Doctorate, Tez Savunma Jürisi, Gebze Teknik Üniversitesi, February, 2020  
Doctoral Examination, Doktora Yeterlik Sınav Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, September, 2019  
Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi Fen Bilimleri Enstitüsü, August, 2019  
Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi Fen Bilimleri Enstitüsü, July, 2019  
Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi Fen Bilimleri Enstitüsü, July, 2019  
Doctorate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, April, 2019  
Associate Professor Exam, Yayın Aşaması Eser İnceleme, ÜAK, March, 2019  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2019  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2019  
Doctoral Examination, Doktora Yeterlik Sınav Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2019  
Doctoral Examination, Doktora Yeterlik Sınav Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2019  
Doctorate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2019

Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi Fen Bilimleri Enstitüsü, October, 2018  
Associate Professor Exam, Yayın Aşaması Eser İnceleme, ÜAK, October, 2018  
Doctoral Examination, Doktora Yeterlik Sınav Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, September, 2018  
Doctoral Examination, Doktora Yeterlik Sınav Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, September, 2018  
Doctorate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, September, 2018  
Associate Professor Exam, Yayın Aşaması Eser İnceleme, ÜAK, December, 2017  
Doctorate, Tez Savunma Jürisi, Gebze Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2017  
Doctorate, Tez Savunma Jürisi, Atatürk Üniversitesi Fen Bilimleri Enstitüsü, November, 2016  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, June, 2016  
Doctorate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, January, 2016  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, December, 2015  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, December, 2015  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, May, 2015  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, May, 2015  
Post Graduate, Tez Savunma Jürisi, Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü, January, 2013  
Post Graduate, Tez Savunma Jürisi, Niğde Üniversitesi Fen Bilimleri Enstitüsü, January, 2012  
Post Graduate, Tez Savunma Jürisi, Niğde Üniversitesi Fen Bilimleri Enstitüsü, August, 2009  
Post Graduate, Tez Savunma Jürisi, Niğde Üniversitesi Fen Bilimleri Enstitüsü, August, 2009  
Post Graduate, Tez Savunma Jürisi, Niğde Üniversitesi Fen Bilimleri Enstitüsü, August, 2009  
Post Graduate, Tez Savunma Jürisi, Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, August, 2007

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

- I. **Triple-effect new generation drying technique**  
Okur O., KÜÇÜK H., Midilli A.  
Innovative Food Science and Emerging Technologies, vol.89, 2023 (SCI-Expanded)
- II. **Development of a new curve equation representing thin layer drying process**  
Midilli A., Kucuk H.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.4, pp.9717-9730, 2023 (SCI-Expanded)
- III. **A review on converting plastic wastes into clean hydrogen via gasification for better sustainability**  
Midilli A., Küçük H., Haciosmanoğlu M., Akbulut U., Dincer İ.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.4, pp.4001-4032, 2022 (SCI-Expanded)
- IV. **A comprehensive review on hydrogen production from coal gasification: Challenges and Opportunities**  
Midilli A., Küçük H., Topal M. E., Akbulut U., Dincer İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.50, pp.25385-25412, 2021 (SCI-Expanded)
- V. **Thermodynamic based environmental and sustainability assessments of gas flow in a curved annular channel**  
MİDİLLİ A., KÜÇÜK H., AKBULUT U.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.49, pp.26379-26386, 2020 (SCI-Expanded)
- VI. **Exergetic performance comparison of air and hydrogen gas flowing through the annular curved duct**  
MİDİLLİ A., Kucuk H., AKBULUT U.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10859-10868, 2018 (SCI-Expanded)
- VII. **A preface to the special issue section on "The National Hydrogen Technologies Congress (UHTEK 2015), 20-23 December 2015, Istanbul, Turkey"**  
Midilli A., Kucuk H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.4, pp.2434, 2017 (SCI-Expanded)

- VIII. **Viscous dissipation effects on entropy generation in heated vertical parallel-plate channels for mixed convection**  
AKBULUT U., OVALI R. V., Kucuk H.  
INTERNATIONAL JOURNAL OF EXERGY, vol.23, no.1, pp.1-17, 2017 (SCI-Expanded)
- IX. **Numerical study on entropy generation in L-shaped curved channels**  
Kucuk H.  
INTERNATIONAL JOURNAL OF EXERGY, vol.20, no.4, pp.465-481, 2016 (SCI-Expanded)
- X. **Assessment of exergetic sustainability indicators for a single layer solar drying system**  
MIDILLI A., Kucuk H.  
INTERNATIONAL JOURNAL OF EXERGY, vol.16, no.3, pp.278-292, 2015 (SCI-Expanded)
- XI. **A Review on Thin-Layer Drying-Curve Equations**  
Kucuk H., MIDILLI A., KILIC A., DINCER I.  
DRYING TECHNOLOGY, vol.32, no.7, pp.757-773, 2014 (SCI-Expanded)
- XII. **Environmental and sustainability aspects of a recirculating aquaculture system**  
MIDILLI A., KÜÇÜK H., DINCER I.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.31, no.4, pp.604-611, 2012 (SCI-Expanded)
- XIII. **Numerical analysis of entropy generation and minimisation in eccentric curved annular ducts**  
Kucuk H.  
INTERNATIONAL JOURNAL OF EXERGY, vol.9, no.1, pp.40-65, 2011 (SCI-Expanded)
- XIV. **Economic Analysis and Sustainability of Turkish Marine Hatcheries**  
KURTOĞLU İ. Z., Kucuk H., ALKAN A., ÖZDEMİR A.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.10, no.4, pp.513-521, 2010 (SCI-Expanded)
- XV. **Numerical analysis of entropy generation in concentric curved annular ducts**  
Kucuk H.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.24, no.9, pp.1927-1937, 2010 (SCI-Expanded)
- XVI. **Exergetic performance analysis of a recirculating aquaculture system**  
Kucuk H., Midilli A., ÖZDEMİR A., Cakmak E., DINCER I.  
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.5, pp.1033-1043, 2010 (SCI-Expanded)
- XVII. **NATURAL CONVECTION IN A TRIANGULAR CROSS SECTION ROOF UNDER DAYLIGHT CONDITIONS**  
Kucuk H., GEDİKLİ H.  
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.30, no.1, pp.99-110, 2010 (SCI-Expanded)
- XVIII. **ANALYSIS OF HEAT AND FLUID FLOW IN CONCENTRIC ANNULAR SQUARE DUCTS**  
Kucuk H., Avci M., AYDIN O., Asan H.  
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.29, no.1, pp.7-13, 2009 (SCI-Expanded)
- XIX. **A Numerical Study on Heat and Fluid Flow in Concentric Curved Annular Square Ducts**  
Kucuk H., Asan H.  
HEAT TRANSFER ENGINEERING, vol.30, no.5, pp.383-392, 2009 (SCI-Expanded)
- XX. **FORCED CONVECTION HEAT TRANSFER IN ECCENTRIC CURVED ANNULAR SQUARE DUCTS**  
Kucuk H., Asan H.  
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.29, no.1, pp.67-78, 2009 (SCI-Expanded)
- XXI. **A numerical computation of heat and fluid flow in L-shaped curved channels**  
ASAN H., Kucuk H.  
HEAT TRANSFER ENGINEERING, vol.28, no.2, pp.112-119, 2007 (SCI-Expanded)
- XXII. **Energy and exergy analyses of solar drying process of pistachio**  
Midilli A., Kucuk H.  
ENERGY, vol.28, no.6, pp.539-556, 2003 (SCI-Expanded)
- XXIII. **Mathematical modeling of thin layer drying of pistachio by using solar energy**  
Midilli A., Kucuk H.

ENERGY CONVERSION AND MANAGEMENT, vol.44, no.7, pp.1111-1122, 2003 (SCI-Expanded)

XXIV. **A new model for single-layer drying**

Midilli A., Kucuk H., YAPAR Z.

DRYING TECHNOLOGY, vol.20, no.7, pp.1503-1513, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Single-layer drying modeling of pumpkin (Cucurbita Maxima)**  
KÜÇÜK H., AKBULUT U., MİDİLLİ A.  
Turkish Journal of Electromechanics and Energy, vol.7, no.3, pp.110-119, 2022 (Peer-Reviewed Journal)
- II. **Techno-economic analysis of a regulator-type hydropower plant**  
CÜCE A., KÜÇÜK H., MİDİLLİ A.  
Turkish Journal of Electromechanics and Energy, vol.7, no.2, pp.48-57, 2022 (Peer-Reviewed Journal)
- III. **Experimental Investigation and Mathematical Modeling of Microwave Thin Layer Drying Behaviour of Apricot, Kiwi and Mint Leaves**  
ŞİMŞEK M., KÜÇÜK H., MİDİLLİ A.  
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.2, no.2, pp.13-35, 2021 (Peer-Reviewed Journal)
- IV. **Conceptual design of a regulator-type hydropower plant**  
CÜCE A., KÜÇÜK H., MİDİLLİ A.  
Turkish Journal of Electromechanics and Energy, vol.6, no.3, pp.108-122, 2021 (Peer-Reviewed Journal)
- V. **Su Ürünleri Yetiştiriciliğinde Kapalı Devre Sistemlerinin Kullanılması**  
KÜÇÜK H.  
YUNUS ARASTIRMA BÜLTENİ, vol.5, no.1, pp.9-11, 2005 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Comprehensive Energy Systems, Volume 4: Energy Conversion**  
Dincer İ. (Editor), Midilli A. (Editor), Küçük H. (Editor)  
Elsevier Science, Oxford/Amsterdam , Amsterdam, 2018
- II. **Concluding Remarks**  
KÜÇÜK H., DINCER İ.  
in: Comprehensive Energy Systems Volume 4: Energy Conversion, Ibrahim Dincer, Haydar Küçük, Editor, Elsevier, Oxford, pp.1234-1244, 2018
- III. **Progress in Sustainable Energy Technologies: Generating Renewable Energy**  
DINCER İ., MİDİLLİ A., KÜÇÜK H.  
Springer, Cham, 2014
- IV. **Progress in Sustainable Energy Technologies: Creating Sustainable Development**  
DINCER İ., MİDİLLİ A., KÜÇÜK H.  
Springer, Cham, 2014
- V. **Progress in Exergy, Energy, and the Environment**  
DINCER İ., MİDİLLİ A., KÜÇÜK H.  
Springer, Cham, 2014
- VI. **Common Applications of Thin Layer Drying Curve Equations and Their Evaluation Criteria**  
KÜÇÜK H., KILIÇ A., MİDİLLİ A.  
in: Progress in Exergy, Energy, and the Environment, Dincer İ., Midilli A., Kucuk H., Editor, Springer, Cham, pp.705-716, 2014
- VII. **Exergy-Based Sustainability Indicators for a Single Layer Solar Drying Process**  
MİDİLLİ A., KÜÇÜK H.

in: Progress in Exergy, Energy, and the Environment, Dincer I., Midilli A., Kucuk H., Editor, Springer, Cham, pp.743-750, 2014

**VIII. Environmental Friendly Food Smoking Technologies**

KILIÇ A., KÜÇÜK H., MİDİLLİ A.

in: Progress in Sustainable Energy Technologies Vol II, Dincer Ibrahim, Midilli Adnan, Kucuk Haydar, Editor, Springer, London, pp.557-576, 2014

**IX. Environmental Friendly Food Smoking Technologies**

KILIÇ A., KÜÇÜK H., MİDİLLİ A.

in: Progress in Sustainable Energy Technologies Vol II Creating Sustainable Development, İBRAHİM DİNÇER, ADNAN MİDİLLİ, HAYDAR KÜÇÜK, Editor, Springer, pp.557-576, 2014

**X. Entropy Generation of Hydrogen Flow in a Curved Annular Duct**

KÜÇÜK H., AKBULUT U., MİDİLLİ A.

in: Progress in Sustainable Energy Technologies Vol II Creating Sustainable Development, İBRAHİM DİNÇER, ADNAN MİDİLLİ, HAYDAR KÜÇÜK, Editor, Springer, pp.63-77, 2014

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

- I. **Some Indicators in Evaluating Exergetic Sustainability Aspects for Hydrogen Gas Flowing Through the Annular Curved Duct**  
Midilli A., Küçük H., Akbulut U.  
10th International Conference on Hydrogen Production (ICH2P-2019), Cluj-Napoca, Romania, 15 - 17 May 2019
- II. **Effect of Inlet Air Temperature on Exergetic Performance of Hydrogen Production from Car Tires via Plasma Gasification**  
DEMİRÇAY H., MEHAN M., TOPAL M. E., KALINCI Y., BAYRAKTAR Ş., AKBULUT U., KÜÇÜK H., OLGUN H., MİDİLLİ A., DİNÇER İ.  
3rd International Hydrogen Technologies Congress, 15 - 18 March 2018, pp.366-369
- III. **An Investigation on Exergetic Performance of Hydrogen Gas Flowing through the Annular Curved Duct**  
Midilli A., Küçük H., Akbulut U.  
2nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017, pp.279-286
- IV. **A Study on Single Layer Drying Curve Equations**  
KILIÇ A., KÜÇÜK H., MİDİLLİ A.  
Sixth International Exergy, Energy and Environment Symposium, Turkey, 1 - 04 July 2013
- V. **Exergetic Sustainability Analysis of a Single Layer Solar Drying Process**  
MİDİLLİ A., KÜÇÜK H.  
The Sixth International Exergy, Energy and Environment Symposium, Rize, Turkey, 1 - 04 July 2013, pp.551-557
- VI. **Exergetic Sustainability Evaluation of a Recirculating Aquaculture System**  
MİDİLLİ A., KÜÇÜK H., DİNÇER İ.  
Global Conference on Global Warming, Lizbon, Portugal, 11 - 14 July 2011
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KURTOĞLU İ. Z., KÜÇÜK H., ALKAN A., ÖZDEMİR A.  
15. Su Ürünleri Sempozyumu, Rize, Turkey, 1 - 04 July 2009
- IX. **Kaçık Merkezli Halka Kesitli Eğrisel Kanallarda Isı Transferinin İncelenmesi**  
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- X. **Halka Kesitli Kanallarda Eğriliğin Yerel Isı Transferine Etkisi**  
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15. Ulusal Isı Bilimi ve Tekniđi Kongresi (ULIBTK'05), Trabzon, Turkey, 7 - 09 September 2005, vol.2, pp.823-828
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- XII. **Boru Girişine Yerleştirilen Konik Yüzey Halkalı Türbülátörlerin Isı Transferi ve Sürtünme Faktörüne Etkilerinin Deneysel İncelenmesi**  
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- Midilli A., Küçük H., Akbulut U., Bayraktar Ş., Kalıncı Y., Dincer İ., Olgun H., TUBITAK Project, Sođutma Kolonlu Çift Beslemeli Plazma Konik Reaktörlü Organik Çöp Gazlaşturma Sisteminin Deneysel Performansının Araştırılması, 2017 - 2020
- Kurtođlu İ. Z., Terzi E., Küçük H., Balta F., Kayış Ş., Ak K., Project Supported by Other Official Institutions, Karadeniz Bölgesi'nde Termoklin Tabakasının Altından Su Çekerek Deniz Kafeslerinde Gökkuşadı Alabalıđının Yazlatılma Olanaklarının Araştırılması, 2015 - 2020
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## **Activities in Scientific Journals**

Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, Assistant Editor/Section Editor, 2021 - Continues  
KSU Journal of Engineering Sciences , Advisory Committee Member, 2013 - Continues

## **Memberships / Tasks in Scientific Organizations**

Hidrojen Teknolojileri Derneği, Member, 2015 - Continues  
TMMOB Makine Mühendisleri Odası, Member, 1993 - Continues

## **Scientific Refereeing**

International Journal of Hydrogen Energy, SCI Journal, August 2017  
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Journal of Food Engineering, SCI Journal, April 2005  
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## **Metrics**

Publication: 58

Citation (WoS): 1694

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## **Congress and Symposium Activities**

The Sixth International Exergy, Energy and Environment Symposium, Attendee, Rize, Turkey, 2013

Türkiye’de Kalkan Balığı Yetiştiriciliği Çalıştayı, Attendee, Trabzon, Turkey, 2007

16. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK’07), Attendee, Kayseri, Turkey, 2007

15. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK’05), Attendee, Trabzon, Turkey, 2005

The Second Trabzon International Energy and Environment Symposium, Attendee, Trabzon, Turkey, 1998

## **Non Academic Experience**

Public Research Center, Tarım ve Köy İşleri Bakanlığı Trabzon Su Ürünleri Merkez Araştırma Enstitüsü, Ministry of Agricultural and Rural Affairs Trabzon Central Fisheries Research Institute