

## Doç.Dr. CANDENİZ SEÇKİN

### Kişisel Bilgiler

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### Biyografi

Candeniz Seçkin received her Bachelor of Science degree in Mechanical Engineering in 2002 from Istanbul Technical University, Istanbul, Turkey. In 2003, she was recruited to Istanbul Technical University, Energy Institute as a Research Assistant. She received her Master of Science degree in Energy Science and Technology from Istanbul Technical University, Energy Institute in 2006, Istanbul, Turkey. She received her PhD degree from the same university in 2013. She was a visiting researcher in Università Degli di Roma "La Sapienza", Mechanical Engineering Department, Rome, Italy between 2010-2012. Currently, she carries out her teaching and research activities at Marmara University, Mechanical Engineering Department as an Associate Professor. Her research interests are refrigeration systems, solar energy systems, resource accounting in energy generation.

### Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri Anabilim Dalı, Türkiye 2006 - 2013  
Yüksek Lisans, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri Anabilim Dalı, Türkiye 2003 - 2006

Lisans, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1996 - 2002

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Extended exergy accounting (EEA) analysis of Turkish society: Determination of environmental remediation costs, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri Anabilim Dalı, 2013

Yüksek Lisans, Silindirik parabolik güneş toplayıcılarının ısı analizi, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri Anabilim Dalı, 2006

### Araştırma Alanları

Termodinamik

### Akademik Unvanlar / Görevler

Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2018 - Devam Ediyor

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Konvansiyonel Enerji Anabilim Dalı, 2003 - 2012

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Effect of Operational Parameters on a Novel Combined Cycle of Ejector Refrigeration Cycle and Kalina Cycle**  
SEÇKİN C.  
Journal of Energy Resources and Technology, cilt.142, ss.12001-120011, 2020 (SCI Expanded İndekslerine Giren Dergi)
- II. **Thermodynamic analysis of a combined power/refrigeration cycle: Combination of Kalina cycle and ejector refrigeration cycle**  
SEÇKİN C.  
ENERGY CONVERSION AND MANAGEMENT, cilt.157, ss.631-643, 2018 (SCI İndekslerine Giren Dergi)
- III. **Parametric Analysis and Comparison of Ejector Expansion Refrigeration Cycles With Constant Area and Constant Pressure Ejectors**  
SEÇKİN C.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, cilt.139, sa.4, 2017 (SCI İndekslerine Giren Dergi)
- IV. **Extended Exergy Accounting analysis of IGCC process - Determination of environmental remediation cost of refinery and coke processing waste**  
SEÇKİN C.  
JOURNAL OF CLEANER PRODUCTION, cilt.119, ss.178-186, 2016 (SCI İndekslerine Giren Dergi)
- V. **Extended Exergy Accounting (EEA) analysis of municipal wastewater treatment - Determination of environmental remediation cost for municipal wastewater**  
SEÇKİN C., Bayülken A. R.  
APPLIED ENERGY, cilt.110, ss.55-64, 2013 (SCI İndekslerine Giren Dergi)
- VI. **Extended exergy analysis of Turkish transportation sector**  
SEÇKİN C., Sciubba E., Bayülken A. R.  
JOURNAL OF CLEANER PRODUCTION, cilt.47, ss.422-436, 2013 (SCI İndekslerine Giren Dergi)
- VII. **An application of the extended exergy accounting method to the Turkish society, year 2006**  
SEÇKİN C., Sciubba E., Bayülken A. R.  
ENERGY, cilt.40, sa.1, ss.151-163, 2012 (SCI İndekslerine Giren Dergi)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Investigation of the Effect of the Primary Nozzle Throat Diameter on the Evaporator Performance of an Ejector Expansion Refrigeration Cycle**  
SEÇKİN C.  
JOURNAL OF THERMAL ENGINEERING, cilt.4, ss.1939-1953, 2018 (Diğer Kurumların Hakemli Dergileri)
- II. **Parametric Analysis of a Biomass-fired Combined Power and Refrigeration Cycle**  
SEÇKİN C.  
International Journal of Mechanical and Production Engineering, cilt.6, ss.6-13, 2018 (Diğer Kurumların Hakemli Dergileri)
- III. **Analysis of ejector expansion refrigeration cycle with two phase flow ejector / İki fazlı ejektör kullanan ejektörlü soğutma çevriminin analizi**  
SEÇKİN C.  
Sakarya University Journal of Science, cilt.21, ss.1591-1607, 2017 (Diğer Kurumların Hakemli Dergileri)

## Kitap & Kitap Bölümleri

- I. **Environmental Remediation Cost of Industrial Solid Waste in Terms of Extended Exergy**  
SEÇKİN C.  
Engineering Approaches on Sustainability, Zehra Semra Can, Barış Yılmaz, Seval Genç, Candemir Seçkin, Editör,  
IJOPEC, Londrina, ss.45-64, 2016

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Analysis of a biomass-fired power/refrigeration combined cycle (Kalina cycle and Ejector Refrigeration Cycle) – Determination of variation in combined cycle thermal efficiency with operational conditions**  
SEÇKİN C.  
PGSRET 2019 (5th International Conference on Power Generation Systems and Renewable Energy Technologies),  
İstanbul, Türkiye, 26 - 27 Ağustos 2019, cilt.1, ss.168-173
- II. **Effect of Variation in Heat Supply to the Performance of a Biomass-fired Combined Power and Refrigeration Cycle – Utilization of Kalina Cycle Heat in an Ejector Refrigeration Cycle**  
SEÇKİN C.  
IRENEC 2018 (8th International 100 Renewable Energy Conference), İstanbul, Türkiye, 7 - 09 Mayıs 2018, cilt.1,  
ss.90-95
- III. **Parametric Analysis of a Biomass-fired Combined Power and Refrigeration Cycle**  
SEÇKİN C.  
ICSTEM 2018 (197th International Conference on Science, Technology, Engineering and Management), İstanbul,  
Türkiye, 23 - 24 Şubat 2018, cilt.1, ss.18-24
- IV. **Effect of Ejector Internal Efficiencies on Cooling Performance of an Ejector Expansion Refrigeration Cycle with a Two Phase Ejector**  
SEÇKİN C.  
International Conference on Energy and Thermal Engineering 2017- ICTE 2017, İstanbul, Türkiye, 25 - 28 Nisan  
2017, cilt.1, ss.152
- V. **Effect of The Primary Nozzle Throat Diameter on The Cooling Performance of an Ejector Expansion Refrigeration Cycle with a Two Phase Ejector Under Critical Conditions**  
SEÇKİN C.  
İSTANBUL INTERNATIONAL CONFERENCE ON PROGRES IN APPLIED SCIENCE 2017 – ICPAS 2017, İstanbul,  
Türkiye, 4 - 06 Ocak 2017, cilt.1, ss.20-30
- VI. **Environmental Remediation Cost of Industrial Solid Waste in Terms of Extended Exergy**  
SEÇKİN C.  
International Sustainability Congress 2016 - ICS 2016, İstanbul, Türkiye, 1 - 03 Aralık 2016, cilt.1, ss.72-75
- VII. **Environmental Remediation Cost of Solid Waste in EEA Methodology - An Application to Turkish Tertiary Sector Solid Waste**  
SEÇKİN C., Bayülken A.  
GCGW 2012 (Global Conference on Global Warming 2012), İstanbul, Türkiye, 8 - 12 Temmuz 2012, cilt.1
- VIII. **Determination of environmental remediation cost of municipal waste in terms of extended exergy**  
SEÇKİN C., Bayülken A. R.  
ECOS 2012 (25th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact  
of Energy Systems), Perugia, İtalya, 26 - 29 Haziran 2012, cilt.1, ss.363-376
- IX. **Resource Use Evaluation of Turkish Transportation Sector via the Extended Exergy Accounting Method**  
SEÇKİN C., Sciubba E., Bayülken A. R.  
ECOS 2012 (25th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact  
of Energy Systems), Perugia, İtalya, 26 - 29 Haziran 2012, cilt.1, ss.448-465

- X. **Assessment of Resource Use in Turkish Household Sector and Labour Generation**  
SEÇKİN C., Bayülken A.  
SET 2011 (10th International Conference on Sustainable Energy Technologies), İstanbul, Türkiye, 4 - 07 Eylül 2011, cilt.1, ss.1-6
- XI. **Extended Exergy Accounting applied to the Turkish society 2006**  
SEÇKİN C., Sciubba E., Bayülken A.  
ECOS 2011 (24th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems), Novi-Sad, Sırbistan Ve Karadağ, 4 - 07 Temmuz 2011, cilt.1, ss.2588-2602
- XII. **Effects of System Parameters on Thermodynamic Efficiencies of Cylindrical Parabolic Solar Collector**  
SEÇKİN C.  
SET 2009 (8th International Conference on Sustainable Energy Technologies), Aachen, Almanya, 31 Ağustos - 03 Eylül 2009, cilt.1, ss.1-6
- XIII. **Effects of Operation Parameters on Payback Time of a Cogeneration System - A Textile Plant Application**  
SEÇKİN C., ŞAHİN U. K.  
SET 2009 (8th International Conference on Sustainable Energy Technologies), Aachen, Almanya, 31 Ağustos - 03 Eylül 2009, cilt.1, ss.1-6

## **Desteklenen Projeler**

Seçkin C., Yükseköğretim Kurumları Destekli Proje, Biyometan ile Beslenen Yeni Bir Birleşik Çevrimin Modellenmesi, Termodinamik Analizi ve Performans Değerlendirilmesi, 2018 - 2019

Seçkin C., Kılıç A., Yükseköğretim Kurumları Destekli Proje, Silindirik Parabolik Güneş Toplayıcılarında Isıl Verim Değişimi ve Optimizasyonu, 2005 - 2006

## **Akademik Dolaşım Faaliyetleri**

Diğer Değişim Programı, Lisansüstü Eğitim Kapsamında Araştırma, Università Degli Studi di Roma La Sapienza, İtalya, 2010 - 2011

## **Atıflar**

Toplam Atıf Sayısı (WOS):99

h-indeksi (WOS):6