

Assoc. Prof. CANDENİZ SEÇKİN

Personal Information

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International Researcher IDs

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Biography

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.

Education Information

Doctorate, Istanbul Technical University, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri Anabilim Dalı, Turkey 2006 - 2013

Postgraduate, Istanbul Technical University, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri Anabilim Dalı, Turkey 2003 - 2006

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1996 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, 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

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

Research Areas

Thermodynamics

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2018 - Continues
Research Assistant, Istanbul Technical University, Enerji Enstitüsü, Konvansiyonel Enerji Anabilim Dalı, 2003 - 2012
Research Assistant, Università Degli Studi di Roma La Sapienza, Mühendislik Fakültesi, Makina Ve Uzak Mühendisliği, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation on the Effects of Nanorefrigerants in a Combined Cycle of Ejector Refrigeration Cycle and Kalina Cycle**
SEÇKİN C.
Journal of Energy Resources Technology, Transactions of the ASME, vol.146, no.2, 2024 (SCI-Expanded)
- II. **Effect of Operational Parameters on a Novel Combined Cycle of Ejector Refrigeration Cycle and Kalina Cycle**
SEÇKİN C.
Journal of Energy Resources and Technology, vol.142, pp.12001-120011, 2020 (SCI-Expanded)
- III. **Thermodynamic analysis of a combined power/refrigeration cycle: Combination of Kalina cycle and ejector refrigeration cycle**
SEÇKİN C.
ENERGY CONVERSION AND MANAGEMENT, vol.157, pp.631-643, 2018 (SCI-Expanded)
- IV. **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, vol.139, no.4, 2017 (SCI-Expanded)
- V. **Extended Exergy Accounting analysis of IGCC process - Determination of environmental remediation cost of refinery and coke processing waste**
SEÇKİN C.
JOURNAL OF CLEANER PRODUCTION, vol.119, pp.178-186, 2016 (SCI-Expanded)
- VI. **Extended Exergy Accounting (EEA) analysis of municipal wastewater treatment - Determination of environmental remediation cost for municipal wastewater**
SEÇKİN C., Bayülken A. R.
APPLIED ENERGY, vol.110, pp.55-64, 2013 (SCI-Expanded)
- VII. **Extended exergy analysis of Turkish transportation sector**
SEÇKİN C., Sciubba E., Bayülken A. R.
JOURNAL OF CLEANER PRODUCTION, vol.47, pp.422-436, 2013 (SCI-Expanded)
- VIII. **An application of the extended exergy accounting method to the Turkish society, year 2006**
SEÇKİN C., Sciubba E., Bayülken A. R.
ENERGY, vol.40, no.1, pp.151-163, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Energy and Exergy Analysis of an Innovative Power/Refrigeration Cycle: Kalina Cycle and Ejector Refrigeration Cycle**
SEÇKİN C.
International journal of advances in engineering and pure sciences (Online), vol.35, no.2, pp.193-202, 2023 (Peer-Reviewed Journal)
- II. **Parametric Analysis of a Biomass-fired Combined Power and Refrigeration Cycle**

SEÇKİN C.

International Journal of Mechanical and Production Engineering, vol.6, pp.6-13, 2018 (Peer-Reviewed Journal)

III. 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, vol.4, no.3, pp.1939-1953, 2018 (Scopus)

IV. 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, vol.21, pp.1591-1607, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

I. DETAILS OF ENVIRONMENTAL IMPACT ASSESSMENT IN EXTENDED EXERGY ACCOUNTING METHOD
SEÇKİN C.

in: Academic Research and Reviews in Engineering Sciences, Birol Kılıç, Editor, Platanus Publishing, Ankara, pp.155-168, 2023

II. MODELLING OF DIFFERENT EJECTOR DESIGNS AND EJECTOR REFRIGERATION CYCLES
SEÇKİN C.

in: Advances in Engineering Sciences, Gülten Başıyigit Kılıç, Editor, Platanus Publishing, Ankara, pp.381-410, 2023

III. Environmental Remediation Cost of Industrial Solid Waste in Terms of Extended Exergy
SEÇKİN C.

in: Engineering Approaches on Sustainability, Zehra Semra Can, Barış Yılmaz, Seval Genç, Candemir Seçkin, Editor, IJOPEC, Londrina, pp.45-64, 2016

Refereed Congress / Symposium Publications in Proceedings

I. INVESTIGATION OF OPERATIONAL PARAMETERS IN AN INNOVATIVE COMBINED CYCLE
SEÇKİN C.

5TH INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Rize, Turkey, 8 - 10 November 2023, vol.1, pp.329-342

II. Analysis of a power/cooling cycle (Ejector refrigeration cycle and Kalina cycle)
SEÇKİN C.

ICAT 2022 (10th International Conference on Advanced Technologies), Van, Turkey, 25 November 2022, vol.1, pp.304-310

III. Hydrogen and Electricity Production with Nuclear Power Plant and Solar Cells
SARILMAZ G. F., SEÇKİN C.

Global Summit on Advanced Materials & Sustainable Energy (G-AMSE22), Van, Turkey, 03 October 2022, vol.1, pp.111-121

IV. Analyses of HVAC Systems for a Sample Building
Tokgayev H., SEÇKİN C.

2. International European Conference on Interdisciplinary Scientific Researches, Ankara, Turkey, 04 July 2020, vol.1, pp.19-27

V. 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, Turkey, 26 - 27 August 2019, vol.1, pp.168-173

- VI. **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, Turkey, 7 - 09 May 2018, vol.1, pp.90-95
- VII. **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, Turkey, 23 - 24 February 2018, vol.1, pp.18-24
- VIII. **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, Turkey, 25 - 28 April 2017, vol.1, pp.152
- IX. **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.
ISTANBUL INTERNATIONAL CONFERENCE ON PROGRES IN APPLIED SCIENCE 2017 – ICPAS 2017, İstanbul, Turkey, 4 - 06 January 2017, vol.1, pp.20-30
- X. **Environmental Remediation Cost of Industrial Solid Waste in Terms of Extended Exergy**
SEÇKİN C.
International Sustainability Congress 2016 - ICS 2016, İstanbul, Turkey, 1 - 03 December 2016, vol.1, pp.72-75
- XI. **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, Turkey, 8 - 12 July 2012, vol.1
- XII. **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, Italy, 26 - 29 June 2012, vol.1, pp.448-465
- XIII. **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, Italy, 26 - 29 June 2012, vol.1, pp.363-376
- XIV. **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, Turkey, 4 - 07 September 2011, vol.1, pp.1-6
- XV. **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, Serbia And Montenegro, 4 - 07 July 2011, vol.1, pp.2588-2602
- XVI. **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, Germany, 31 August - 03 September 2009, vol.1, pp.1-6
- XVII. **Effects of System Parameters on Thermodynamic Efficiencies of Cylindrical Parabolic Solar Collector**
SEÇKİN C.
SET 2009 (8th International Conference on Sustainable Energy Technologies), Aachen, Germany, 31 August - 03

Supported Projects

Seçkin C., Project Supported by Higher Education Institutions, Biyometan ile Beslenen Yeni Bir Birleşik Çevrimin Modellenmesi, Termodinamik Analizi ve Performans Değerlendirilmesi, 2018 - 2019

Seçkin C., Kılıç A., Project Supported by Higher Education Institutions, Silindirik Parabolik Güneş Toplayıcılarında Isıl Verim Değişimi ve Optimizasyonu, 2005 - 2006

Mobility Activity

Other Exchange Programme, Research During Graduate Education, Università Degli Studi di Roma La Sapienza, Italy, 2010 - 2011

Metrics

Publication: 32

Citation (WoS): 140

Citation (Scopus): 138

H-Index (WoS): 6

H-Index (Scopus): 6