

## Asst. Prof. FEYZA KAZANÇ ÖZERİNÇ

### Personal Information

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### Education Information

Doctorate, Northeastern University, Makine Mühendisliği, United States Of America 2009 - 2013

Under Graduate, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, Turkey 2003 - 2009

### Research Areas

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Renewable Energy Systems, Alternative Energy Resources, Solar energy, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2014 - 2018

### Professional Experience

Bölüm Başkan Danışmanı, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2017 - Continues

### Advising Theses

KAZANÇ ÖZERİNÇ F., Investigation of Turkish lignites and biomass at high heating rates by using wire mesh apparatus, Post Graduate, M.BAGHIRZADE(Student), 2018

KAZANÇ ÖZERİNÇ F., Non-reacting cfd analysis of a drop tube furnace used for solid fuel combustion, Post Graduate, G.GÜLENÇ(Student), 2017

KAZANÇ ÖZERİNÇ F., Combustion behavior and kinetics of a Turkish lignite blended with biomass/magnesite dust, Post Graduate, F.YOUSEFZAD(Student), 2017

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **An experimental and numerical study on the combustion of lignites from different geographic origins**  
Özer B., Debiagi P. E. A. , Hasse C., Faravelli T., Kazanç F.  
Fuel, vol.278, 2020 (Journal Indexed in SCI)

- **A study on the effects of various combustion parameters on the mineral composition of Tuncbilek fly ash**  
Akin S. S. , Magalhaes D., KAZANÇ ÖZERİNÇ F.  
FUEL, vol.275, 2020 (Journal Indexed in SCI)
- **Comparison of single particle combustion behaviours of raw and torrefied biomass with Turkish lignites**  
Magalhaes D., Panahi A., KAZANÇ ÖZERİNÇ F., Levendis Y. A.  
FUEL, vol.241, pp.1085-1094, 2019 (Journal Indexed in SCI)
- **A study on the reactivity of various chars from Turkish fuels obtained at high heating rates**  
Magalhaes D., Riaza J., KAZANÇ ÖZERİNÇ F.  
FUEL PROCESSING TECHNOLOGY, vol.185, pp.91-99, 2019 (Journal Indexed in SCI)
- **Combustion Behavior and Kinetics of Turkish Lignite Blended with Biomass/Magnesite Dust**  
Farrokhi F. Y. , KAZANÇ ÖZERİNÇ F.  
JOURNAL OF ENERGY ENGINEERING, vol.144, 2018 (Journal Indexed in SCI)
- **Ignition behavior of Turkish biomass and lignite fuels at low and high heating rates**  
Magalhaes D., KAZANÇ ÖZERİNÇ F., Ferreira A., Rabacal M., Costa M.  
FUEL, vol.207, pp.154-164, 2017 (Journal Indexed in SCI)
- **Combustion of Turkish lignites and olive residue: Experiments and kinetic modelling**  
Magalhaes D., KAZANÇ ÖZERİNÇ F., Riaza J., Erensoy S., Kabakli O., Chalmers H.  
FUEL, vol.203, pp.868-876, 2017 (Journal Indexed in SCI)
- **Comparison of Fine Ash Emissions Generated from Biomass and Coal Combustion and Valuation of Predictive Furnace Deposition Indices: A Review**  
Ruscio A., KAZANÇ ÖZERİNÇ F., Levendis Y. A.  
JOURNAL OF ENERGY ENGINEERING, vol.142, 2016 (Journal Indexed in SCI)
- **Characterization of Particulate Matter Emitted from Combustion of Various Biomasses in O-2/N-2 and O-2/CO2 Environments**  
Ruscio A., Kazanc F., Levendis Y. A.  
ENERGY & FUELS, vol.28, pp.685-696, 2014 (Journal Indexed in SCI)
- **Chemical Composition of Submicrometer Particulate Matter (PM1) Emitted from Combustion of Coals of Various Ranks in O-2/N-2 and O-2/CO2 Environments**  
Kazanc F., Levendis Y. A. , Maffei T.  
ENERGY & FUELS, vol.27, pp.4984-4998, 2013 (Journal Indexed in SCI)
- **Physical Properties of Particulate Matter Emitted from Combustion of Coals of Various Ranks in O-2/N-2 and O-2/CO2 Environments**  
Kazanc F., Levendis Y. A.  
ENERGY & FUELS, vol.26, pp.7127-7139, 2012 (Journal Indexed in SCI)
- **Emissions of NOx and SO2 from Coals of Various Ranks, Bagasse, and Coal-Bagasse Blends Burning in O-2/N-2 and O-2/CO2 Environments**  
Kazanc F., Khatami R., Crnkovic P. M. , Levendis Y. A.  
ENERGY & FUELS, vol.25, pp.2850-2861, 2011 (Journal Indexed in SCI)

### Articles Published in Other Journals

- **PARTICULATE MATTER FORMATION DURING CO-COMBUSTION OF AGRICULTURAL RESIDUES WITH TURKISH LIGNITE USING A DROP TUBE FURNACE**  
KAZANÇ ÖZERİNÇ F.  
Eskişehir Technical University Journal of Science and Technology A - Applied Sciences and Engineering, vol.20, pp.317-325, 2019 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- **FLY ASH TO ZEOLITE: EFFECT OF FLY ASH CHARACTERISTICS ON ZEOLITE 4A SYNTHESIS**  
Akn Ş., Kirdeciler K. S., KAZANÇ ÖZERİNÇ F., AKATA KURÇ B.  
Clean Air 2019, 8 - 12 September 2019
- **INFRARED SENSING OF BIOMASS COMBUSTION IN A WIRE MESH REACTOR**  
Uluca K., Baghırzade M., Sivashgil m., Magalhaes D., KAZANÇ ÖZERİNÇ F.  
Clean Air 2019, 8 - 12 September 2019
- **AN EXPERIMENTAL AND NUMERICAL STUDY ON THE COMBUSTION OF LIGNITES FROM DIFFERENT GEOGRAPHIC ORIGINS**  
ÖZER B., Debiagi P. E. A., Hasse C., Faravelli T., KAZANÇ ÖZERİNÇ F.  
Clean Air 2019, 8 - 12 September 2019
- **A study on the morphological changes during biomass pyrolysis using a model based on percolation theory**  
Kazanç Özerinç F., Ozer B.  
37th International Symposium on Combustion, Dublin, Ireland, 29 July - 03 August 2018, pp.1
- **Fast pyrolysis of Turkish biomass and its blends with lignite coal by using novel wire mesh reactor**  
Kazanç Özerinç F., Baghırzade M.  
37th International Symposium on Combustion, Dublin, Ireland, 29 July - 03 August 2018, pp.1
- **Fly Ash to Zeolite: Effect of Ash Characteristics on Zeolite Synthesis**  
Kazanç Özerinç F., Akın S. Ş., Akata Kurç B., Kirdeciler S. K.  
37th International Symposium on Combustion, Dublin, Ireland, 29 July - 03 August 2018, pp.1
- **PM formation during high heating rate co-combustion of lignite coal with olive residue**  
Kazanç Özerinç F., Magalhaes D.  
37th International Symposium on Combustion, Dublin, Ireland, 29 July - 03 August 2018, pp.1
- **PM formation during combustion of a Turkish lignite using drop tube furnace**  
Kazanç Özerinç F., Magalhaes D.  
14th International Conference on Combustion (INCOS2018), Karabük, Turkey, 25 - 27 April 2018, pp.1
- **Fast pyrolysis of Turkish hazelnut shell by using novel wire mesh reactor**  
Kazanç Özerinç F., Baghırzade M., Gürel K.  
14th International Conference on Combustion, Karabük, Turkey, 25 - 27 April 2018, pp.1
- **Effect of particle size on residence time and burnout of Tunçbilek lignite**  
Kazanç Özerinç F., Ozer B., Magalhaes D.  
In 14th International Conference on Combustion (INCOS2018), Karabük, Turkey, 25 - 27 April 2018, pp.1
- **A study on the reactivity of chars from various Turkish fuels obtained at high heating rates**  
Kazanç Özerinç F., Farrokhı F. Y., Magalhaes D., Riaza J.  
13th International Conference on Energy for a Clean Environment, Ponta-Delgada, Portugal, 2 - 06 July 2017, pp.1
- **Combustion Behavior of Lignite/Biomass and Lignite/Magnesite Dust Blends with a Binding Agent**  
Kazanç Özerinç F., Farrokhı F. Y.  
8th European Combustion Meeting (ECM 2017), Dubrovnik, Croatia, 18 - 21 April 2017, pp.1
- **Gasification of a Turkish lignite under CO<sub>2</sub> and CO<sub>2</sub>+H<sub>2</sub>O atmospheres: modelling approach**  
Kazanç Özerinç F., Magalhaes D., Gökalp İ., Karaca M.  
8th European Combustion Meeting (ECM 2017), Dubrovnik, Croatia, 18 - 21 April 2017, pp.1

## Supported Projects

Baker D. K., Kale N., Kazanç Özerinç F., H2020 Project, GEOSMART, 2019 - 2023  
Kazanç Özerinç F., Akata Kurç B., TUBITAK Project, Tunçbilek ve Seyitömer Linyitinin Farklı Parametrelerle Yanması  
Sonucu Elde Edilen Uçucu Küllerinin Zeolit 4A ve 13X Üretimi Potansiyelinin Araştırılması, 2019 - 2021  
KAZANÇ ÖZERİNÇ F., MAGALHAES D., ÖZER B., Project Supported by Higher Education Institutions, Deneysel ve

Hesaplamalı Yöntemlerle Afşin-Elbistan Linyitinin Yanma Davranışının Düşey Borulu Reaktör Kullanılarak İncelenmesi, 2018 - 2020

Tarı İ., Bayer Ö., Baker D. K. , Kazanç Özerinç F., TÜBİTAK International Bilateral Joint Cooperation Program Project, Atık Çamurların Değerlendirilmesi İçin Güneş Enerjili Kurutma Teknolojileri Geliştirilmesi, 2018 - 2020

AKATA KURÇ B., AKIN S. Ş. , KAZANÇ ÖZERİNÇ F., Project Supported by Higher Education Institutions, UÇUCU KÜLDEN ZEOLİT ELDE EDİLMESİ: SENTEZ VE KARAKTERİZASYONU, 2018 - 2019

Kazanç Özerinç F., Newton Programme Project, Flexible Oxy-Combustion for Turkish Fuels, 2015 - 2019

Kazanç Özerinç F., TUBITAK Project, Türk Linyitlerinin Çeşitli Biyokütleler ve Atık Manyezit Tozu ile Pulverize Yanma Özelliklerinin Düşey Borulu Fırında İncelenmesi, 2015 - 2018

KAZANÇ ÖZERİNÇ F., Project Supported by Higher Education Institutions, Atık manyezit tozu ve çeşitli biyokütlelerin Türk linyitlerinin yanması üzerindeki etkisi, 2015 - 2016

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

Combustion Institute, Member, 2010 - Continues, United States Of America

## **Scientific Refereeing**

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2018

TUBITAK Project, 3001 - Initial R&D Projects Support Program, Middle East Technical University, Turkey, July 2018

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, March 2018

## **Citations**

Total Citations (WOS):214

h-index (WOS):8