

## Asst. Prof. Barış GÜREL

### Personal Information

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### Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Turkey 2012 - 2018

Post Graduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Turkey 2011 - 2012

Under Graduate, Balikesir University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği,  
Turkey Continues

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, DÜŞÜK KALİTELİ LİNYİTLERİN YAKILABİLMESİ İÇİN DOLAŞIMLI AKIŞKAN YATAKLI KAZAN(DAYK/CFBB) SİSTEMİNDE TOZ VE SU DOLAŞIM SİSTEMİNİN TASARIMI VE YANMA KARAKTERİSTİKLERİNİN İNCELENMESİ, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2018

Post Graduate, Plastik Enjeksiyonda Lüle Bölgesindeki Akışın Matematiksel Olarak Modellenmesi, Suleyman Demirel University, Fen Bilimleri Enstitüsü , Makine Mühendisliği, 2012

### Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Pressure Vessels and Piping, Conventional Energy Systems and Their Technology, Alternative Energy Resources, Thermodynamics, Heat and Mass Transfer, Fuels and Combustion, Computational fluid dynamics, Engineering and Technology

### Academic Titles / Tasks

Research Assistant PhD, Suleyman Demirel University, Mühendislik Fakültesi , Makine Müh. , 2018 - Continues

Research Assistant, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Makine Müh. , 2010 - 2017

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

- Investigation on thermal degradation kinetics and mechanisms of chicken manure, lignite, and their blends by TGA**  
YURDAKUL S., GÜREL B., VAROL M., GÜRBÜZ H., KURTULUŞ K.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 2021 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **TÜRKİYE'DEKİ GÜNCEL BİYOKÜTLE POTANSİYELİNİN BELİRLENMESİ VE YAKILMASIYLA ENERJİ ÜRETİMİ İYİ BİR ALTERNATİF OLAN BİYOKÜTLE ATIKLAR İÇİN SEKTÖREL AÇIDAN VE TOPLAM YANMA ENERJİ DEĞERLERİNİN HESAPLANMASI**

GÜREL B.

Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.2, pp.407-416, 2020 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Yumurta Kabuklarının Yerli Linyitle Birlikte Kabarcıklı Akışkan Yataklı Kazanda Yakılmasında Baca Gazı Emisyonlarının Değişiminin İncelenmesi**  
GÜREL B.  
INCOS 2020, Kayseri, Turkey, 17 - 19 September 2020, pp.299-303
- II. **Investigation Thermal Degradation Kinetics and Mechanisms of Chicken Manure, Lignite and Their Blends by TGA**  
YURDAKUL S., Akman R., Onur E., GÜREL B., VAROL M., GÜRBÜZ H.  
ICEEE'2020, Kayseri, Turkey, 25 - 27 July 2020, pp.92-93
- III. **Silindirik İç İçe Boruda Nanopartikül Katkılı Faz Dönüşümlü Enerji Depolama Malzemesinin Katılmasının Sayısal İncelenmesi**  
GÜREL B.  
INSAC Doğa ve Sağlık Bilimleri (ICNHS-2020), Konya, Turkey, 22 - 23 May 2020, pp.186-198
- IV. **Effect of Blending Ratio during Co-Combustion of Chicken Manure and Turkish Lignite with Thermogravimetry**  
Akman R., Armakan S., YURDAKUL S., GÜREL B., VAROL M., GÜRBÜZ H.  
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019, pp.18
- V. **Analytical Solving of Natural Water Circulation System and Numerical Modeling of Two Phase Flow in the Raisers**  
GÜREL B., İPEK O., KAN M.  
INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERINGAPPLICATIONS, Sivas, Turkey, 20 - 22 September 2018
- VI. **Modelling of the Hydrodynamic Flow and Erosion for the 4 Different Circulating Fluidised Bed Boiler Designs by Computational Particle Fluid Dynamics**  
GÜREL B., İPEK O., KAN M.  
INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERINGAPPLICATIONS, Sivas, Turkey, 20 - 22 September 2018
- VII. **Examination of Different Heat Exchangers Thermal Activities which Have Different Designs**  
İPEK O., KAN M., GÜREL B.  
3rd International Conference On Computational And Experimental Science And Engineering, 19 - 24 October 2016
- VIII. **Numerical Approach on Hydrodynamic Combustion and NOX Emission Behavior in 8 MWth Circulating Fluidized Bed**  
İPEK O., GÜREL B., KAN M.  
3rd International Conference On Computational And Experimental Science And Engineering, 19 - 24 October 2016
- IX. **Investigation of Heat Transfer Performance for Different Mass Flow Rate in Compact Plate Heat Exchanger**  
İPEK O., KAN M., GÜREL B.  
II. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016
- X. **Air Preheater Design And Optimization**  
İPEK O., GÜREL B., KAN M.  
II. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016

- XI. **Numerical Investigation on Hydrodynamic Behaviour in 8 MWthCirculating Fluidized Bed**  
İPEK O., GÜREL B., KAN M.  
II. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016
- XII. **Numerical Analysis on Oxy Fuel Combustion for Different Mixture Rate**  
İPEK O., KAN M., GÜREL B.  
International Conference On Engineering And Natural Science, 15 - 19 May 2015, pp.520-527

## **Scientific Refereeing**

Applied Energy (12 tane), SCI Journal, September 2017

## **Citations**

Total Citations (WOS):30

h-index (WOS):4