

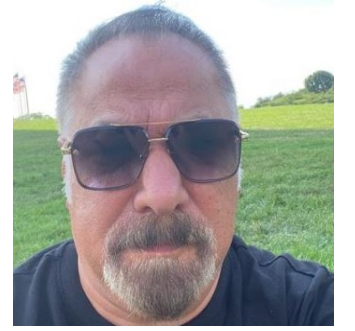
## Prof. HÜSEYİN TOPAL

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### International Researcher IDs

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### Education Information

Post Doctorate, University of Sheffield, Engineering Faculty, Chemical and Process Engineering, England 2001 - 2004

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 1994 - 1999

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1989 - 1992

Undergraduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1984 - 1989

### Dissertations

Doctorate, Dolaşımli akışkan yatağın hidrodinamik, yanma ve emisyon özelliklerinin deneysel incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 1999

Postgraduate, Izgaralı kazanlarda yanma odasındaki yapısal değişikliklerin kazan ısı performans ve emisyon davranışına etkisinin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1992

### Research Areas

Mechanical Engineering

### Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2019 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2005 - 2013

### Academic and Administrative Experience

Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2006 - 2009

## Courses

HİDROLİK MAKİNALAR, Undergraduate, 2020 - 2021  
Ölçme ve veri değerlendirme, Undergraduate, 2020 - 2021  
MM491 Buhar Kazanları, Undergraduate, 2016 - 2017  
Çevresel Risk Yönetimi, Postgraduate, 2016 - 2017  
MM 528 Katı atık yönetiminin mühendislik prensipleri, Postgraduate, 2016 - 2017  
MM487 Plazma Teknolojileri, Undergraduate, 2016 - 2017  
MM491E Steam Boiler, Undergraduate, 2016 - 2017  
MM540 HAVA KİRLİLİĞİ VE KONTROL TEKNOLOJİLERİ, Postgraduate, 2016 - 2017  
MM539 Akışkan yatakta yanmaya giriş, Postgraduate, 2016 - 2017

## Advising Theses

Topal H., Pyrolysis of Şırnak and Hakkari asphaltites with catalyst in a fluidized bed reactor, Doctorate, S.MOGHANIRAHIMI(Student), 2023  
Topal H., Numerical investigation of multiphase flow and combustion in a biomass fuelled circulating fluidized bed steam boiler, Postgraduate, A.KEÇECİ(Student), 2023  
Topal H., Dolaşımli Bir Akışkan Yataklı Biyokütle Gazlaştırıcı Tasarımı, Hidrodinamik ve Termokimyasal Modellenmesi, Doctorate, Y.ALTINSOY(Student), 2022  
Topal H., EXPERIMENTAL INVESTIGATION OF THE REMOVAL OF ORGANIC POLLUTANTS BY USING OZONE IN DRINKING WATER TREATMENT FACILITIES, Postgraduate, E.DUMLU(Student), 2022  
Topal H., ANALYSING THE DATA FROM THE FLIGHT DATA RECORDER (FDR) AND SIMILAR EQUIPMENT USED TO DETERMINE THE CAUSES OF AIRCRAFT ACCIDENTS AND INCIDENTS, ON SAMPLE CASE STUDIES AND DEVELOPMENT OF A NOVEL METHOD FOR THIS PURPOSE, Doctorate, H.Arzu(Student), 2021  
Topal H., Türkiye'de leonarditin tarımda kullanılabilirliğinin teknolojik incelenmesi, Postgraduate, S.YAĞLIDERE(Student), 2021  
Topal H., AKIŞKAN YATAKLI BİR GAZLAŞTIRICIDA BİYOKÜTLENİN GAZLAŞMA PERFORMANSININ TERMODİNAMİK YAKLAŞIM VE HESAPLAMALI AKIŞKANLAR DİNAMİĞİ (HAD) YAKLAŞIMI İLE DEĞERLENDİRİLMESİ, Postgraduate, M.YAZGI(Student), 2020  
TOPAL H., Examination Of The Use Of Ozone And Chlorine Gases In The Treatment Of Textile Wastewater, Postgraduate, B.EZGİ(Student), 2019  
TOPAL H., Analysis Of Biomass Supported Concentrated Solar Energy Organic Rankine Cycle, Postgraduate, A.BAŞEĞMEZ(Student), 2019  
TOPAL H., Design Of A Combined Gas-Steam Power Cycle With Biomass Fuel, Postgraduate, S.DEKAN(Student), 2019  
Topal H., Assessing Effectiveness Of Integrated Building Design Parameters On Energy Performance And Emissions In Health Care Facilities By Means Of Building Energy Modelling, Postgraduate, M.Pooyanfar(Student), 2019  
TOPAL H., Useability Analysis Of Energy Production With Forest Residuals And An Application, Postgraduate, O.DEMİRCAN(Student), 2019  
TOPAL H., Design Of A Gas Turbine-Waste Heat Recovery System With Natural Gas Fuel, Postgraduate, Ö.BOZDAŞ(Student), 2019  
TOPAL H., Belediye düzenli depolama sahalarında kullanılan gaz motoru atık ısısından elektrik enerjisi üretimi, Postgraduate, T.KANKILIÇ(Student), 2016  
Topal H., The Production Of Electrical Energy From Gas Engine Waste Heat Used In The Municipal Landfill Area, Postgraduate, T.Kankılıç(Student), 2016  
TOPAL H., Güneş enerjisi potansiyelinin bölgesel analizi ve enerji üretim sistemlerine uyarlanması, Postgraduate, E.ARSLAN(Student), 2015  
Topal H., The Solar Energy Potential Of Regional Analysis and Adaptation Of Production Systems, Postgraduate, E.ARSLAN(Student), 2015  
TOPAL H., Türkiye'de bulunan biyokütlelerin piroliz özelliklerinin deneysel olarak incelenmesi, Postgraduate, I.ERKAN(Student), 2013  
TOPAL H., Solid waste disposal with plasma gasification technology, Postgraduate, C.DERELİ(Student), 2012

Yıldırım F., Topal H., Kömür kökenli metan gazının değerlendirilerek iklim değişikliğine etkisinin azaltılması, Postgraduate, H.ÖKSÜZ(Student), 2012

TOPAL H., Kömür gazlaştırma prosesi ve yerli linyit kömürlerinin gazlaşma özelliklerinin incelenmesi, Postgraduate, R.ALİ(Student), 2010

TOPAL H., TECHNICAL AND ECONOMICAL COMPARISON OF NATURAL GAS DRIVEN ABSORPTION AIR CONDITIONING SYSTEMS, Postgraduate, F.DÖN(Student), 2010

TOPAL H., Gıda sanayii biyokütle atıklarının enerji potansiyeli ve geri kazanımı, Postgraduate, M.TÜRKOĞLU(Student), 2010

TOPAL H., Döner tip biyokütle gazlaştırıcı tasarımı ve prototip imalatı, Postgraduate, D.Y.(Student), 2010

TOPAL H., Doğalgazla çalışan absorpsiyonlu iklimlendirme sistemlerinin teknik ve ekonomik açıdan karşılaştırılması, Postgraduate, F.DÖN(Student), 2010

TOPAL H., Yarı Eberhart tipi kireç fırınlarının modifikasyonunun üretim enerjisi, yakıt ekonomisi ve hava kirliliği açısından incelenmesi, Postgraduate, E.UĞUR(Student), 2010

Topal H., EXPERIMENTAL INVESTGATION OF GASIFICATION PRODUCTS AT LOW TEMPERATURE FROM WOOD WASTES IN A CIRCULATING FLUIDIZED BED, Postgraduate, B.BOYACI(Student), 2007

TOPAL H., Dolaşımli akışkan yatakta düşük sıcaklıklarda orman ürünlerinden oluşan gaz ürünlerin deneysel incelenmesi, Postgraduate, B.BOYACI(Student), 2007

TOPAL H., Akışkan yataklı kömür yakma sistemlerinde otomatik kontrol tasarım ve uygulaması, Postgraduate, S.DÜLGER(Student), 2007

TOPAL H., Dolaşımli tip bir akışkan yataklı reaktörde kireçtaşı-SO<sub>2</sub> reaktivitesinin deneysel belirlenmesi, Postgraduate, M.BÜYÜKGÜNER(Student), 2005

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

- I. **Modeling of a fluidized bed gasifier with computational fluid dynamics (CFD) and thermodynamic equilibrium approach and comparative analysis with experimental data Akışkan yataklı bir gazlaştırıcının hesaplamalı akışkanlar dinamiği (HAD) ve termodinamik denge yaklaşımı ile modellenmesi ve deneysel verilerle karşılaştırmalı olarak incelenmesi**  
Yazgı M., TOPAL H.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.1, pp.125-137, 2023 (SCI-Expanded)
- II. **Study on particle radiative properties of lignite, hard coal and biomass fly ashes in the infrared wavelength range**  
Döner N., Topal H., Aygahoğlu A., Şen F., Karimi-Maleh H.  
CHEMOSPHERE CHEMISTRY, BIOLOGY AND TOXICOLOGY AS RELATED TO ENVIRONMENTAL PROBLEMS, vol.291, no.1, pp.1-10, 2022 (SCI-Expanded)
- III. **A model of energy management analysis, case study of a sugar factory in Turkey**  
Taner T., Sivrioglu M., Topal H., Dalkılıç A. S., Wongwises S.  
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.43, no.3, 2018 (SCI-Expanded)
- IV. **APPLICATION OF TRIGENERATION WITH DIRECT CO-COMBUSTION OF POULTRY WASTE AND COAL A Case Study in the Poultry Industry from Turkey**  
TOPAL H., TANER T., Altinsoy Y., Amirabedin E.  
THERMAL SCIENCE, vol.22, no.6, pp.3073-3082, 2018 (SCI-Expanded)
- V. **ASSESSING EFFECTIVENESS OF INTEGRATED BUILDING DESIGN PARAMETERS ON ENERGY PERFORMANCE AND EMISSIONS IN HEALTH CARE FACILITIES BY MEANS OF BUILDING ENERGY MODELLING**  
Pooyanfar M., TOPAL H.  
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.151-165, 2018 (SCI-Expanded)
- VI. **Exergy analysis of a circulating fluidized bed power plant co-firing with olive pits: A case study of**

### **power plant in Turkey**

TOPAL H., TANER T., Naqvi S. A. H., Altınsoy Y., Amirabedin E., ÖZKAYMAK M.  
ENERGY, vol.140, pp.40-46, 2017 (SCI-Expanded)

### **VII. PLASMA GASIFICATION TECHNOLOGY FOR SOLID WASTE DISPOSAL**

TOPAL H.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.4, pp.733-741,  
2015 (SCI-Expanded)

### **VIII. Peach and apricot stone combustion in a bubbling fluidized bed**

Kaynak B., Topal H., Atımtay A.

FUEL PROCESSING TECHNOLOGY, vol.86, no.11, pp.1175-1193, 2005 (SCI-Expanded)

### **IX. Co-combustion of olive cake with lignite coal in a circulating fluidized bed**

Atımtay A., Topal H.

FUEL, vol.83, no.7-8, pp.859-867, 2004 (SCI-Expanded)

### **X. Emission characteristics of co-combustion of sewage sludge with olive cake and lignite coal in a circulating fluidized bed**

Toraman O., Topal H., BAYAT O., Atımtay A.

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES &  
ENVIRONMENTAL ENGINEERING, vol.39, no.4, pp.973-986, 2004 (SCI-Expanded)

### **XI. Olive cake combustion in a circulating fluidized bed**

Topal H., Atımtay A., Durmaz A.

FUEL, vol.82, no.9, pp.1049-1056, 2003 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. Asphaltite Pyrolysis in Fluidized Bed Reactor**

Topal H., Moghanirahimi S.

Gazi University Journal of Science Part A: Engineering and Innovation, vol.10, no.2, pp.166-175, 2023 (Peer-  
Reviewed Journal)

### **II. A comparison of crash investigation of two aircraft, one with flight data recorder and cockpit voice recorder and the other, without them**

Inan H. A., TOPAL H.

INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, vol.6, no.1, pp.36-50, 2020 (ESCI)

### **III. Thermal Design of a Fluidized Bed Steam Boiler Using Refuse Derived Fuel (RDF) in Organic Rankine Cycle**

TOPAL H.

Gazi University Journal of Science PART A: ENGINEERING AND INNOVATION, vol.5, no.4, pp.173-189, 2018 (Peer-  
Reviewed Journal)

### **IV. EXPERIMENTAL AND NUMERICAL INVESTIGATION OF CEILING MOUNTED RADIANTPANELS HEAT OUTPUT FOR DIFFERENT INLET-OUTLET WATER TEMPERATURES**

Ergür E., Serhat Ü., Çalışır T., Başkaya Ş., Topal H.

International Journal of Scientific Research in Information Systems and Engineering, vol.4, no.1, pp.42-48, 2018  
(Peer-Reviewed Journal)

### **V. Experimental and numerical investigation of ceiling mounted radiant panels heat output for different inlet-outlet water temperatures**

Ergür E., Ünver S., ÇALIŞIR T., BAŞKAYA Ş., TOPAL H.

Int. J. of Scientific Research in Information Systems and Engineering, vol.4, no.1, pp.42-50, 2018 (Peer-Reviewed  
Journal)

### **VI. Design and Application of Automatic Control System in a Laboratory Scale Fluidized Bed Coal Combustion System**

TOPAL H., Altınsoy Y., ERBAŞ O.

Gazi University Journal of Science PART A: ENGINEERING AND INNOVATION, vol.5, no.1, pp.49-63, 2018 (Peer-Reviewed Journal)

- VII. **Akışkan Yatakta Rejim Bölgesinin Isı Transferine Etkisi**  
ERBAŞ O., TOPAL H., ŞENTÜRK ACAR M., ARSLAN O.  
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.4, no.2, pp.24-27, 2017 (Peer-Reviewed Journal)
- VIII. **Güneşlenme şiddetini ölçen aletlerin verilerinin Iğdır ilinde gösterdiği değişkenlikler ve bunların nedenlerinin incelenmesi**  
Arslan E., TOPAL H., YILDIRIM M. U.  
Gazi Mühendislik Bilimleri Dergisi, 2016 (Peer-Reviewed Journal)
- IX. **BELEDİYEATIKLARINDAN DÜZENLİ DEPOLAMA SAHALARINDA BİYOGAZI VE ENERJİ ÜRETİMİ**  
Turgay K., TOPAL H.  
Mühendis ve Makina, vol.56, no.669, pp.58-69, 2015 (Peer-Reviewed Journal)
- X. **A RESEARCH ON SOLAR POWER POTENTIAL S REGIONAL ANALYZE AND ADAPTATION OF ENERGY PRODUCTION SYSTEM**  
Aslan E., TOPAL H.  
INTERNATIONAL REFEREED ACADEMIC SOCIAL SCIENCES JOURNAL, no.4, pp.14, 2015 (Peer-Reviewed Journal)
- XI. **Techno environmental assessment of co gasification of low grade Turkish lignite with biomass in a trigeneration power plant**  
Amirabedin E., Rahim M. A., Mirparham P., TOPAL H.  
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, vol.13, pp.5-11, 2014 (Scopus)
- XII. **Design and Economic Analysis of a Heating/Absorption Cooling System Operating with Municipal Solid Waste Digester: A Case Study of Gazi University**  
Cosar G., Pooyanfar M., Amirabedin E., Topal H.  
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, vol.11, no.1, pp.12-18, 2013 (ESCI)
- XIII. **Determination of some important emissions of poultry waste co-combustion**  
Topal H., Amirabedin E.  
Publication in a Scientific Journal of the Series of Scientific Journal of RTU Environmental and Climate Technologies, vol.8, pp.12-17, 2012 (Peer-Reviewed Journal)
- XIV. **Effects of the size distribution of fuel particulate on the heat gate in the inner surface of fluidized bed**  
ERBAŞ O., TOPAL H.  
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, pp.91-96, 2008 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Energy Production from Municipal Solid Waste Using Plasma Gasification**  
Topal H.  
in: Progress in Exergy, Energy, and the Environment, İ Dinçer, Editor, Springer, London/Berlin , Bern, pp.857-865, 2014

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

- I. **Investigation of the Effect of Convectors on the Flow Field above Panel Radiators**  
Çalışır T., Başkaya Ş., Yazar H. O., Topal H.  
3rd International Conference on Engineering Technology and Applied Sciences, ICETAS, Skopje, Macedonia, Skopje, Macedonia, 17 - 21 July 2018
- II. **Solar and Biogas Hybrid Energy Resources Used With An Example of Hospital Building Project in Turkey**  
TOPAL H., Altınsoy Y., ÇALIŞIR T., BAŞKAYA Ş.

4th International Conference on Engineering and Natural Science, ICENS, Kiev, Ukraine, 2 - 06 May 2018

- III. **Energy and Exergy Analysis of 10 kWe Solar Organic Rankine Cycle**  
Topal H., Başığmez A., Altınsoy Y., Çalışır T., Başkaya Ş.  
ICENS 4th International Conference on Engineering and Natural Science, Kyiv, Ukraine, 2 - 06 May 2018
- IV. **Solar And Biogas Hybrid Energy Resources Used With An Example Of Hospital Building Project In Turkey**  
Topal H., Altınsoy Y., Başkaya Ş., Çalışır T.  
ICENS 4th International Conference on Engineering and Natural Science, Kyiv, Ukraine, 2 - 06 May 2018
- V. **Experimental and numerical investigation of ceiling mounted radiant panels heat output for different inlet-outlet water temperatures**  
Eda E., Ünver S., ÇALIŞIR T., BAŞKAYA Ş., TOPAL H.  
5th International Symposium on Engineering, Artificial Intelligence Applications, ISEAIA 2017, Girne, Cyprus (Kktc), 1 - 03 November 2017
- VI. **Numerical investigation of different parameters on the laminar natural convection heat transfer in annular space between horizontal cylinders filled with non-newtonian nano fluid**  
Harab B. A., Çalışır T., Başkaya Ş., Topal H.  
5th International Symposium on Engineering, Artificial Intelligence Applications, ISEAIA 2017, Girne, Cyprus (Kktc), 1 - 03 November 2017
- VII. **Experimental investigation of system performance and emission behavior in biomass fueled domestic heating boilers**  
Topal H., Altınsoy Y., Başkaya Ş., Çalışır T.  
International Symposium on Engineering, Artificial Intelligence Applications, ISEAIA 2017, Girne, Cyprus (Kktc), 1 - 03 November 2017
- VIII. **Determining energy consumption in hospital buildings and evaluating energy saving potentials by means of building energy modelling**  
TOPAL H., Altınsoy Y.  
ULIBTK'17 21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- IX. **Effect of Fluidization Regime Zone on The Heat Transfer in Circulating Fluidized Bed**  
ERBAŞ O., TOPAL H., KEÇECİLER A., ERÇETİN Ü., ARSLAN O.  
INTERNATIONAL CONGRESS ON APPLIED SCIENCE AND TECHNOLOGY, 17 - 20 April 2017
- X. **Interaction Model of Long-Range Transboundary Air Pollution for Turkey and Europe**  
ERBAŞ O., Altıncı Y., TOPAL H., ARSLAN O.  
INTERNATIONAL CONGRESS ON APPLIED SCIENCE AND TECHNOLOGY, 17 - 20 April 2017
- XI. **Experimental investigation of pyrolysis characteristics of some biomasses in Turkey and It'xxs gasification potential**  
Altıncı Y., TOPAL H., ERBAŞ O., ARSLAN O.  
INTERNATIONAL CONGRESS ON APPLIED SCIENCE AND TECHNOLOGY, 17 - 20 April 2017
- XII. **Heating of A Greenhouse and A House Buildings with Solar Power and Thermal Storage**  
TOPAL H., Altınsoy Y., ERBAŞ O., ARSLAN O.  
INTERNATIONAL CONGRESS ON APPLIED SCIENCE AND TECHNOLOGY, 7 - 10 April 2017
- XIII. **Performance and sensitivity analysis of Seyitömer coal used in fluidized bed power plant**  
TOPAL H., ERBAŞ O., Kömürcü A., YOLCAN O. O.  
8th International Ege Energy Symposium & Exhibition, 11 - 13 May 2016
- XIV. **The removal of hydrogen sulfide from biogas plant**  
TOPAL H., ERBAŞ O., YOLCAN O. O., Kömürcü A.  
8th International Ege Energy Symposium & Exhibition, 11 - 13 May 2016, vol.1
- XV. **THE EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER PROPERTIES OF A BUBLING FLUIDIZED BED**  
TOPAL H., TANER T., ERBAŞ O.  
8th International Symposium on Turbulence, Heat and Mass Transfer, 15 - 18 September 2015
- XVI. **Energy analyse and management A sample of milk factory in Turkey**

TANER T., TOPAL H., ÖZTUNA TANER Ö.

1st International Conference on Engineering and Natural Sciences, 15 - 19 May 2015

**XVII. Energy performance and efficiency for Turkey s energy policy**

TANER T., TOPAL H.

The Proceedings of Second International Iron and Steel Symposium (IISS'15), Karabük, Turkey, 1 - 03 April 2015, vol.1, pp.812-814

**XVIII. HASTANE VE KAMU BİNALARINDA ISITMA VE SOĞUTMA SİSTEMLERİNDE TASARRUF YÖNTEMLERİ**  
TOPAL H.

SAĞLIK VE KAMU BİNALARINDA ENERJİ VERİMLİLİĞİ SEMPOZYUMU, Turkey, 26 - 27 February 2015

**XIX. The Evaluation of the Air Pollution Problem Originating from Combustion During the EU Adaptation Process**

ERBAŞ O., YILMAZOĞLU M. Z., TOPAL H., DURMAZ A.

9. International Combustion Symposium, Kırıkkale, 16 - 17 November 2006, pp.505-514

## Expert Reports

**I. Pre-design of a thermal power plant**

Topal H.

BİYOSAN ENERJİ ÜRETİM DANIŞMANLIK A.Ş., pp.23, Ankara, 2020

**II. Expertiz Raporu - KAYRA Alüminyum Nak. Oto. İnş.Gıda.Geri Dön. Petrol San. Tic. Ltd. Şti.**

Topal H.

T.C. TİCARET BAKANLIĞI Ankara Gümrük Müdürlüğü, pp.6, Ankara, 2020

**III. TEHLİKELİ ATIK RAPORU**

Ünal R., Topal H.

Ankara Gümrük Müdürlüğü, pp.3, Ankara, 2020

## Supported Projects

TOPAL H., Moghanirahimi S., Project Supported by Higher Education Institutions, AKIŞKAN YATAKLI BİR REAKTÖRDE ŞIRNAK VE HAKKARİ ASFALTİTLERİNİN KATALİZÖR İLE PİROLİZİ, 2022 - 2023

Pekmezci Karaman B., Mürtezaoğlu K., Oktar N., Topal H., Değirmenci L., TUBITAK Project, Biyo-Yakıt Üretiminde Kullanılacak Karbon Oluşumuna Dayanıklı Nitelikli Katalizörlerin Geliştirilmesi ve Uygulamaları, 2021 - 2023

TOPAL H., Project Supported by Other Private Institutions, Baca gazı desülfürizasyon sisteminde adsorbent madde olarak kullanılması planlanan kireçtaşının kimyasal ve fiziksel özelliklerinin araştırılması CENAVA İNŞAAT MADEN SAN VE TİC A Ş nin 21 11 2016, 2016 - 2016

TOPAL H., Project Supported by Other Private Institutions, 160 MWe DETES 1 ENTEGRE TERMİK SANTRALİ PROJESİ TEKNİK İNCELEME RAPORU DETES ELEKTRİK ÜRETİM A Ş TEKNOLOJİK UYGUNLUK RAPORU, 2016 - 2016

TOPAL H., TUBITAK Project, Dinamik seyreltmeli uçucu organik bileşenleri VOC örnekleme cihazının geliştirilmesi, 2015 - 2016

TOPAL H., Project Supported by Other Private Institutions, Buhar Kazanı Hesap ve Proje Kontrolü, 2014 - 2016

TOPAL H., Project Supported by Other Private Institutions, Teknolojik Uygunluk Raporu, 2015 - 2015

TOPAL H., Project Supported by Higher Education Institutions, Yüksek sıcaklıklı buharlı bir gazlaştırmada biyokütle gazlaştırmasının deneysel incelenmesi, 2010 - 2015

Topal H., Project Supported by Higher Education Institutions, 06 2007 38, 2010 - 2015

Başkaya Ş., Topal H., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Linyit kullanımının artırılması amaçlı yanma emisyon kontrolü enerji verimliliği vb Ar Ge çalışmaları için Gazi Üniversitesi GEÇER Araştırma Merkezi laboratuvar altyapısının yenilenmesi ve geliştirilmesi, 2007 - 2010

TOPAL H., Project Supported by Higher Education Institutions, Katı Yakıt Yanmasında Uçucu Hidrokarbon Bileşiklerinin Oluşum Mekanizmalarının Deneysel İncelenmesi ve Hava Kirliliğine Etkileri, 2005 - 2006

TOPAL H., Project Supported by Higher Education Institutions, Orman Ürünleri Atıkları ve Seka Kağıt Fabrikası Atık Çamurlarının Gazlaşma Davranışının Akışkan Yatakta Deneysel İncelenmesi ve Enerji Potansiyeli, 2003 - 2004  
TOPAL H., Project Supported by Higher Education Institutions, Endüstriyel ve evsel atıkların dolaşimli akışkan yatakta yanma ve emisyon davranışlarının inc., 2002 - 2004

## **Scientific Refereeing**

Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, National Scientific Refreed Journal, March 2021  
ENERGY, SCI Journal, January 2019

## **Metrics**

Publication: 48  
Citation (WoS): 238  
Citation (Scopus): 255  
H-Index (WoS): 7  
H-Index (Scopus): 7