

## **Prof. Hanzade Aćma**

### **Personal Information**

**Fax Phone:** [+90 212 285 2925](tel:+902122852925)

**Email:** hanzade@itu.edu.tr

**Address:** İ.T.Ü Kimya Metalurji Fakültesi Kimya Mühendisliği Bölümü Oda No : B 310 Maslak İstanbul

### **International Researcher IDs**

ORCID: 0000-0003-1807-2742

ScopusID: 10043115400

Yoksis Researcher ID: 152427

### **Education Information**

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Kimya-Metalurji Mühendisliği (Dr), Turkey 1991 - 1997

### **Foreign Languages**

English

### **Dissertations**

Doctorate, Kömürün Mineral İçeriğinin Yanma Özelliklerine Etkisi , İstanbul Teknik Üniversitesi, Kimya Mühendisliği, Kimya Mühendisliği, 1997

Postgraduate, Türk linyitlerinin Termal Özelliklerinin Belirlenmesi, İstanbul Teknik Üniversitesi, Kimya Mühendisliği, Kimya Mühendisliği, 1991

### **Research Areas**

Basic Sciences, Chemistry

### **Academic Titles / Tasks**

Professor, İstanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2009 - Continues

Associate Professor, İstanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2007 - 2009

### **Academic and Administrative Experience**

Deputy Head of Department, İstanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2020 - Continues  
İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, 2013 - 2016

### **Courses**

Bilimsel Araş., Etik ve Seminer, Doctorate, 2022 - 2023  
Enerji Ormancılığı ve BiYökütle, Postgraduate, 2022 - 2023  
Termodynamik, Undergraduate, 2022 - 2023  
Bilimsel Araş., Etik ve Seminer, Postgraduate, 2022 - 2023  
Endüstriyel Su Hazırlama Yöntemleri, Undergraduate, 2022 - 2023  
Kömür Bilimi ve Teknolojisi, Postgraduate, 2022 - 2023  
Biyokütle Dönüşüm Teknolojileir, Postgraduate, 2022 - 2023  
Kimya Mühendisliğinde Korozyon ve Malzeme Seçimi, Undergraduate, 2022 - 2023

## Advising Theses

Açma H., Farklı yağ asitleri kullanılarak üretilen alüminyum pastanın gazbeton malzeme üzerindeki etkilerinin incelenmesi, Postgraduate, G.URAL(Student), 2019  
Açma H., Biyokütenin piroliz reaktivitesinin farklı yöntemler kullanılarak incelenmesi, Postgraduate, M.ÖZFİDAN(Student), 2019  
Açma H., Farklı biyokütle numunelerinden torrefaksiyon işlemi ile kaliteli yakıt peleti üretimi, Postgraduate, Y.IŞIK(Student), 2019  
Açma H., Estimation of total carbon, hydrogen, sulfur and gross calorific value by using multi linear regression method, Postgraduate, M.SÖZER(Student), 2018  
Açma H., Lignoselülozik biyokütenin inorganik bileşenlerinin uzaklaştırılmasının kül özellikleri üzerine etkisinin incelenmesi, Postgraduate, Ö.HALİL(Student), 2018  
Açma H., The production of quality fuels from the co-combustion of original, pyrolysed lignite and torrefied, pyrolysed, original biomass blends, Postgraduate, A.ÇALIŞKAN(Student), 2017  
Açma H., Combustion behaviors of Kütahya-Tuncbilek and Adıyaman-Gölbaşı lignites in oxygen enriched environments, Postgraduate, Ö.UĞUZ(Student), 2016  
Açma H., Farklı biyokütle ve Kömür şlamları kullanılarak kaliteli briket üretimi, Postgraduate, A.İştotan(Student), 2016  
Açma H., Briquetting of wood shavings and coal slurry, Postgraduate, O.ALPER(Student), 2016  
Açma H., Afşin Elbistan linyit kömürü ve pirinanın optimum oksı yakma koşullarının belirlenmesi, Postgraduate, O.TORU(Student), 2015  
Açma H., Afşin Elbistan linyit kömürü ve RDF'den üretilen yarıkok karışımlarının yanma davranışlarının belirlenmesi, Postgraduate, G.KURT(Student), 2015  
Açma H., Tekirdağ Malkara linyit kömürünün farklı sıcaklıklarda farklı oksı yakma koşullarında yakılmasında optimum sıcaklık ve oksijen miktarının belirlenmesi, Postgraduate, Y.ÇEKİÇ(Student), 2015  
Açma H., Pyrolysis process effects on the structural properties of biomass and its functional group distribution, Postgraduate, E.TOPSAK(Student), 2011  
Açma H., Adana Tufanbeyli linyit kömürünün farklı atmosferlerde üretilen yarı koklarının kısmi oksidasyonu, Postgraduate, F.ÇAKIROĞLU(Student), 2011  
Açma H., Biyokütenin termal bozunma süreçlerindeki gaz ürünlerinin incelenmesi, Postgraduate, Ş.GÖLBAŞI(Student), 2009  
Açma H., Linyit biyokütle karışımının oksijen ortamında yakılması, Postgraduate, A.ZAHİD(Student), 2009  
Açma H., Kömür biyokütle karışımının briketlenmesi, Postgraduate, E.DAHİLOĞLU(Student), 2008  
Açma H., Çeşitli biyokütle numunelerinin yanma özelliklerinin incelenmesi, Postgraduate, M.METEOĞLU(Student), 2006

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

- I. Effects of torrefaction after pelletizing (TAP) process on strength and fuel characteristics of binderless bio-pellets  
Açma H., Yaman S.  
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.3, pp.3489-3500, 2024 (SCI-Expanded)

- II. Calorific value prediction of coal and its optimization by machine learning based on limited samples in a wide range**  
Büyükkanber K., Açıma H., Yaman S.  
Energy, vol.277, 2023 (SCI-Expanded)
- III. Hydrophobic and oleophilic carbon fiber aerogel for oil/water separation**  
Aytekin M., Açıma H., Yaman S.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-11, 2023 (SCI-Expanded)
- IV. Combustion reactivity estimation parameters of biomass compared with lignite based on thermogravimetric analysis**  
Bilkiç B., Haykiri-Acma H., Yaman S.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.1, pp.370-383, 2023 (SCI-Expanded)
- V. Treating lignocellulosic biomass with dilute solutions at ambient temperature: effects on cellulose crystallinity**  
Açıma H., Yaman S.  
BIOMASS CONVERSION AND BIOREFINERY, 2022 (SCI-Expanded)
- VI. Evaluation of Synergy Between Lignite and Carbonized Biomass During Co-Combustion**  
Aydemir S. O., Açıma H., Yaman S.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.144, no.5, 2022 (SCI-Expanded)
- VII. Burning Resistance of Lignitic Coals under Oxygen-Enriched Conditions**  
ÜĞÜZ Ö., Haykiri-Acma H., Yaman S.  
Journal of Energy Resources Technology, Transactions of the ASME, vol.142, no.8, 2020 (SCI-Expanded)
- VIII. Combustion kinetics of lignite preheated under oxygen-enriched conditions**  
Uguz O., Haykiri-Acma H., Yaman S.  
Energy and Environment, vol.31, no.5, pp.813-824, 2020 (SCI-Expanded)
- IX. Characterization of the Fuel Properties of Chimney Soots from Different Sources**  
Dailli E., Haykiri-Acma H., Yaman S.  
Waste and Biomass Valorization, vol.11, no.5, pp.2017-2026, 2020 (SCI-Expanded)
- X. Synergistic Interactions During Cocombustion of Lignite, Biomass, and Their Chars**  
Sarıkaya A. C., Acma H., Yaman S.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.141, no.12, 2019 (SCI-Expanded)
- XI. Co-combustion of lignite with sewage sludge and refuse-derived fuel**  
Ozfidan M., Haykiri-Acma H., Yaman S.  
Environmental Progress and Sustainable Energy, vol.38, no.6, 2019 (SCI-Expanded)
- XII. Which One Does Better Predict the Heating Value of Biomass? - Dry Based or As-Received Based Proximate Analysis Results?**  
Ozyuguran A., Haykiri-Acma H., Yaman S.  
Journal of Energy Resources Technology, Transactions of the ASME, vol.141, no.11, 2019 (SCI-Expanded)
- XIII. Effects of Pretreatment Outside of Torrefaction Range on Combustion Characteristics of Chars from Lignocellulosic Biomass**  
Sarıkaya A. C., Haykiri-Acma H., Yaman S.  
Journal of Thermal Science and Engineering Applications, vol.11, no.5, 2019 (SCI-Expanded)
- XIV. Effects of Dilute Phosphoric Acid Treatment on Structure and Burning Characteristics of Lignocellulosic Biomass**  
Haykiri-Acma H., Yaman S.  
Journal of Energy Resources Technology, Transactions of the ASME, vol.141, no.8, 2019 (SCI-Expanded)
- XV. Unburnt carbon and ashing behavior for slow burning of lignite under oxygen-enriched combustion conditions**  
Haykiri-Acma H., Cekic Y., Yaman S.

- Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.41, no.11, pp.1326-1335, 2019 (SCI-Expanded)
- XVI. **Burning characteristics and the fuel properties of the dry-carbonization chars of sewage sludge**  
Haykiri-Acma H., Yaman S.  
Journal of Thermal Science and Engineering Applications, vol.11, no.2, 2019 (SCI-Expanded)
- XVII. **Synergistic investigation for co-combustion of biochars and lignite-thermogravimetric analysis approach**  
Haykiri-Acma H., Yaman S.  
Journal of Thermal Science and Engineering Applications, vol.11, no.1, 2019 (SCI-Expanded)
- XVIII. **Activation energy prediction of biomass wastes based on different neural network topologies**  
Cepeliogullar O., Mutlu İ., Yaman S., Haykiri-Acma H.  
Fuel, vol.220, pp.535-545, 2018 (SCI-Expanded)
- XIX. **Unburnt Carbon from Oxygen-Enriched Combustion of Low-Quality Fuels at Low Temperatures**  
Haykiri-Acma H., Yaman S.  
Journal of Energy Resources Technology, Transactions of the ASME, vol.141, no.1, 2018 (SCI-Expanded)
- XX. **Effects of torrefaction on lignin-rich biomass (hazelnut shell): Structural variations**  
Haykiri-Acma H., Yaman S., Kucukbayrak S.  
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.9, no.6, 2017 (SCI-Expanded)
- XXI. **Production of fuel briquettes from rice husk-lignite blends**  
Ozyuguran A., Açıma H., Dahiloglu E.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.36, no.3, pp.742-748, 2017 (SCI-Expanded)
- XXII. **Properties of Biochars Obtained from RDF by Carbonization: Influences of Devolatilization Severity**  
Haykiri-Acma H., KURT G., Yaman S.  
Waste and Biomass Valorization, vol.8, no.3, pp.539-547, 2017 (SCI-Expanded)
- XXIII. **A study to predict pyrolytic behaviors of refuse-derived fuel (RDF): Artificial neural network application**  
Cepeliogullar O., MUTLU I., Yaman S., HAYKIRI-ACMA H.  
Journal of Analytical and Applied Pyrolysis, vol.122, pp.84-94, 2016 (SCI-Expanded)
- XXIV. **Limits of variations on the structure and the fuel characteristics of sunflower seed shell through torrefaction**  
Bilgic E., Yaman S., HAYKIRI-ACMA H., KUCUKBAYRAK S.  
Fuel Processing Technology, vol.144, pp.197-202, 2016 (SCI-Expanded)
- XXV. **Kinetic modelling of RDF pyrolysis: Model-fitting and model-free approaches**  
Cepeliogullar O., HAYLARI-ACMA H., Yaman S.  
Waste Management, vol.48, pp.275-284, 2016 (SCI-Expanded)
- XXVI. **Is torrefaction of polysaccharides-rich biomass equivalent to carbonization of lignin-rich biomass?**  
Bilgic E., Yaman S., HAYKIRI-ACMA H., KUCUKBAYRAK S.  
Bioresource Technology, vol.200, pp.201-207, 2016 (SCI-Expanded)
- XXVII. **Does blending the ashes of chestnut shell and lignite create synergistic interaction on ash fusion temperatures?**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S., MORCALI M. H.  
Fuel Processing Technology, vol.140, pp.165-171, 2015 (SCI-Expanded)
- XXVIII. **Does carbonization avoid segregation of biomass and lignite during co-firing? Thermal analysis study**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Fuel Processing Technology, vol.137, pp.312-319, 2015 (SCI-Expanded)
- XXIX. **Mineralogical Characterization of Chemically Isolated Ingredients from Biomass**  
AÇMA H., Yaman S., ALKAN M., OSKAY S.  
Energy Conversion and Management, vol.77, no.1, pp.221-226, 2014 (SCI-Expanded)
- XXX. **Experimental and statistical studies on the preparation of activated carbons from chestnut shell**  
Döşemen Y., Erol Taygun M. M., Açıma H., Küçükbayrak S.

- Advanced Science Letters, vol.19, no.11, pp.3361-3365, 2013 (SCI-Expanded)
- XXXI. Effects of fragmentation and particle size on the fuel properties of hazelnut shells**  
Haykiri-Acma H., BAYKAN A., Yaman S., KUCUKBAYRAK S.  
Fuel, vol.112, pp.326-330, 2013 (SCI-Expanded)
- XXXII. Are medium range temperatures in Drop Tube Furnace really ineffective?**  
Haykiri-Acma H., BAYKAN A., Yaman S., KUCUKBAYRAK S.  
Fuel, vol.105, pp.338-344, 2013 (SCI-Expanded)
- XXXIII. Production of biobriquettes from carbonized brown seaweed**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Fuel Processing Technology, vol.106, pp.33-40, 2013 (SCI-Expanded)
- XXXIV. Co-combustion of low rank coal/waste biomass blends using dry air or oxygen**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Applied Thermal Engineering, vol.50, no.1, pp.251-259, 2013 (SCI-Expanded)
- XXXV. Combustion characteristics of sodium-free pyrolytic char from hazelnut shell**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Fuel Processing Technology, vol.96, pp.169-174, 2012 (SCI-Expanded)
- XXXVI. Burnout characteristics during co-combustion of binary lignite blends**  
Haykiri-Acma H., Yaman S.  
JOURNAL OF THE ENERGY INSTITUTE, vol.85, no.1, pp.1-6, 2012 (SCI-Expanded)
- XXXVII. Effect of Pyrolysis Temperature on Burning Reactivity of Lignite Char**  
AÇMA H., Yaman S., OSKAY S.  
Energy Education Science and Technology Part A, vol.29, no.2, pp.1203-1216, 2012 (SCI-Expanded)
- XXXVIII. Mobilization of some trace elements from ashes of Turkish lignites in rain water**  
Haykiri-Acma H., Yaman S., Ozbek N., Kucukbayrak S.  
Fuel, vol.90, no.11, pp.3447-3455, 2011 (SCI-Expanded)
- XXXIX. Gold recovery from chloride solutions using fallen leaves**  
Aktas S., GOZUAK B., Açıma H., OZALP M. R., ACMA E.  
ENVIRONMENTAL CHEMISTRY LETTERS, vol.9, no.1, pp.47-53, 2011 (SCI-Expanded)
- XL. Burning characteristics of chemically isolated biomass ingredients**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Energy Conversion and Management, vol.52, no.1, pp.746-751, 2011 (SCI-Expanded)
- XLI. Burning Characteristics of Chemically Isolated Biomass Ingredients Energy Conversion and Management**  
AÇMA H., YAMAN S., Oskay S.  
Energy Conversion and Management, vol.52, no.1, pp.746-751, 2011 (SCI-Expanded)
- XLII. Comparison of the thermal reactivities of isolated lignin and holocellulose during pyrolysis**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Fuel Processing Technology, vol.91, no.7, pp.759-764, 2010 (SCI-Expanded)
- XLIII. Effect of biomass on temperatures of sintering and initial deformation of lignite ash**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Fuel, vol.89, no.10, pp.3063-3068, 2010 (SCI-Expanded)
- XLIV. Controlling the excess heat from oxy-combustion of coal by blending with biomass**  
Haykiri-Acma H., TURAN A. Z., Yaman S., KUCUKBAYRAK S.  
Fuel Processing Technology, vol.91, no.11, pp.1569-1575, 2010 (SCI-Expanded)
- XLV. Effect of Heating Rate on the non isothermal Burning Mechanism of Sunflower Seed Shell**  
AÇMA H., Yaman S.  
Education Science and Technology Part A: Energy Science and Research, vol.24, no.2, pp.113-124, 2010 (SCI-Expanded)
- XLVI. Interaction between biomass and different rank coals during co-pyrolysis**  
Haykiri-Acma H., Yaman S.  
Renewable Energy, vol.35, no.1, pp.288-292, 2010 (SCI-Expanded)

- XLVII. **Calorific value estimation of biomass from their proximate analyses data**  
Erol M., HAYKIRI-ACMA H., KUCUKBAYRAK S.  
Renewable Energy, vol.35, no.1, pp.170-173, 2010 (SCI-Expanded)
- XLVIII. **Thermogravimetric investigation on the thermal reactivity of biomass during slow pyrolysis**  
Haykiri-Acma H., Yaman S.  
International Journal of Green Energy, vol.6, no.4, pp.333-342, 2009 (SCI-Expanded)
- XLIX. **Effect of biomass on burnouts of Turkish lignites during co-firing**  
Haykiri-Acma H., Yaman S.  
Energy Conversion and Management, vol.50, no.9, pp.2422-2427, 2009 (SCI-Expanded)
- L. **Effect of co-combustion on the burnout of lignite/biomass blends: A Turkish case study**  
Haykiri-Acma H., Yaman S.  
Waste Management, vol.28, no.11, pp.2077-2084, 2008 (SCI-Expanded)
- LI. **Combinations of synergistic interactions and additive behavior during the co-oxidation of chars from lignite and biomass**  
Haykiri-Acma H., Yaman S.  
Fuel Processing Technology, vol.89, no.2, pp.176-182, 2008 (SCI-Expanded)
- LII. **Thermal reactivity of rapeseed (*Brassica napus L.*) under different gas atmospheres**  
Haykiri-Acma H., Yaman S.  
Bioresource Technology, vol.99, no.2, pp.237-242, 2008 (SCI-Expanded)
- LIII. **Interpretation of biomass gasification yields regarding temperature intervals under nitrogen-steam atmosphere**  
Haykiri-Acma H., Yaman S.  
Fuel Processing Technology, vol.88, no.4, pp.417-425, 2007 (SCI-Expanded)
- LIV. **Synergy in devolatilization characteristics of lignite and hazelnut shell during co-pyrolysis**  
Haykiri-Acma H., Yaman S.  
Fuel, vol.86, no.3, pp.373-380, 2007 (SCI-Expanded)
- LV. **Slow-pyrolysis and -oxidation of different biomass fuel samples**  
Haykiri-Acma H., Yaman S.  
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.41, no.9, pp.1909-1920, 2006 (SCI-Expanded)
- LVI. **Effect of heating rate on the pyrolysis yields of rapeseed**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Renewable Energy, vol.31, no.6, pp.803-810, 2006 (SCI-Expanded)
- LVII. **Gasification of biomass chars in steam-nitrogen mixture**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S.  
Energy Conversion and Management, vol.47, no.7-8, pp.1004-1013, 2006 (SCI-Expanded)
- LVIII. **The role of particle size in the non-isothermal pyrolysis of hazelnut shell**  
Haykiri-Acma H.  
Journal of Analytical and Applied Pyrolysis, vol.75, no.2, pp.211-216, 2006 (SCI-Expanded)
- LIX. **Investigation of the combustion characteristics of Zonguldak bituminous coal using DTA and DTG**  
Haykiri-Acma H., Yaman S., KUCUKBAYRAK S., OKUTAN H. C.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.28, no.2, pp.135-147, 2006 (SCI-Expanded)
- LX. **Combustion characteristics of different biomass materials**  
Haykiri-Acma H.  
ENERGY CONVERSION AND MANAGEMENT, vol.44, no.1, pp.155-162, 2003 (SCI-Expanded)
- LXI. **Combustion reactivity of different rank coals**  
Haykiri-Acma H., Ersoy-Mericboyu A., Kucukbayrak S.  
Energy Conversion and Management, vol.43, no.4, pp.459-465, 2002 (SCI-Expanded)
- LXII. **Fuel briquettes from biomass-lignite blends**  
Yaman S., SAHAN M., HAYKIRI-ACMA H., SESEN K., KUCUKBAYRAK S.

- Fuel Processing Technology, vol.72, no.1, pp.1-8, 2001 (SCI-Expanded)
- LXIII. Effect of lignite properties on reactivity of lignite**  
 Kucukbayrak S., HAYKIRI-ACMA H., ERSOY-MERICBOYU A., Yaman S.  
 Energy Conversion and Management, vol.42, no.5, pp.613-626, 2001 (SCI-Expanded)
- LXIV. Effect of demineralization on the reactivity of lignites**  
 Haykiri-Acma H., Ersoy-Mericboyu A., Kucukbayrak S.  
 Thermochimica Acta, vol.362, no.1-2, pp.131-135, 2000 (SCI-Expanded)
- LXV. Combustion characteristics of blends of lignite and bituminous coal with different binder materials**  
 Haykiri-Acma H., Ersoy-Mericboyu A., Kucukbayrak S.  
 Energy Sources, vol.22, no.4, pp.325-332, 2000 (SCI-Expanded)
- LXVI. Production of fuel briquettes from olive refuse and paper mill waste**  
 Yaman S., SAHAN M., HAYKIRI-ACMA H., SESEN K., KUCUKBAYRAK S.  
 Fuel processing technology, vol.68, no.1, pp.23-31, 2000 (SCI-Expanded)
- LXVII. Effect of mineral matter on the reactivity of lignite**  
 Haykiri-Acma H., Yavuz R., ERSOY-MERICBOYU A., KUCUKBAYRAK S.  
 Thermochimica Acta, vol.342, no.1-2, pp.79-84, 1999 (SCI-Expanded)
- LXVIII. Analysis of four industrial coal-fired fluidized bed systems**  
 Karatepe N., HAYKIRIACMA H., ERSOYMERICBOYU A.  
 Energy Sources, vol.19, no.5, pp.433-444, 1997 (SCI-Expanded)
- LXIX. Effect of mineral matter on the combustion curve of chars**  
 Sentorun C., HaykiriAcma H., Kucukbayrak S.  
 Thermochimica Acta, vol.277, no.1-2, pp.65-73, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of functional group distribution on combustion characteristics of chars from Afşin Elbistan lignite and RDF**  
 KURT DEMİR G., AÇMA H., YAMAN S.  
 International Advanced Researches and Engineering Journal 02(03): 320-324, 2018, vol.2, no.3, pp.320-324, 2018 (Peer-Reviewed Journal)
- II. **Comparison of the fuel properties and the combustion behavior of PET bottle caps with lignite**  
 Ünal N. İ., MERTDİNÇ S., AÇMA H., YAMAN S.  
 energy Procedia, pp.22-26, 2017 (Peer-Reviewed Journal)
- III. **Afşin Elbistan Linyitinin Biyokütle ve Bağlayıcı Katkısıyla Briketlenmesi**  
 ARIFOĞLU A., AÇMA H.  
 gazi üniversitesi fen bilimleri dergisi part c, vol.4, no.3, pp.103-113, 2016 (Peer-Reviewed Journal)
- IV. **Bioactivity of glass and glass-Seramic in the system SiO<sub>2</sub>-CaO-Al<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub>-Na<sub>2</sub>O-MgO-CaF<sub>2</sub>**  
 Erol M. M., Haykiri-Acma H., Özyağran A., Küükürtçü B., Küükürbayrak S.  
 Advanced Science Letters, vol.19, no.11, pp.3328-3332, 2013 (Scopus)

## Books & Book Chapters

- I. **Chapter 25: Effects of Pyrolysis Conditions on Structural Ingredients and Functional Groups of Hybrid Poplar**  
 AÇMA H., YAMAN S.  
 in: Progress in Sustainable Energy Technologies Vol 1, İbrahim Dinçer, Adnan Midilli, Haydar Küük, Editor, Springer Int, pp.427-438, 2014
- II. **Determination of Some Coal Properties Using Thermal Analysis**  
 Arifoğlu A., Yavuz N., Açıma H., Oskay S.

## Refereed Congress / Symposium Publications in Proceedings

- I. **Applicability of regression analysis on the oxygen enriched combustion of AdiyamanGolbaşı lignite**  
ÜĞÜZ Ö., DEMİRCİ A., AÇMA H., YAMAN S.  
2nd International Conference on Pure and Applied Mathematics, Van, Turkey, 11 - 13 September 2018, pp.141
- II. **Applicability of regression analysis on the oxygen enriched combustion of Kutahya-Tuncbilek lignite**  
Uğuz Ö., Demirci A., Açıma H., Yaman S.  
2nd International Conference on Pure and Applied Mathematics, Van, Turkey, 11 - 13 September 2018, pp.140
- III. **Removal of Inorganic Constituents from Corn Stalk Biomass**  
Baydar N., AÇMA H., YAMAN S.  
15th International Conference of Young Scientists on Energy Issues-CYSENI 2018, Kaunas, Lithuania, 23 - 25 May 2018, vol.1, pp.70-75
- IV. **Determination of the Effects of Particle Size on Combustion Kinetics of Corn Waste**  
Çöp Ö. H., ÇALIŞKAN A., AÇMA H., YAMAN S.  
15th International Conference of Young Scientists on Energy Issues-CYSENI 2018, Kaunas, Lithuania, 23 - 25 May 2018, vol.1, pp.56-60
- V. **Determination of Kinetic Parameters of Original and Torrefied Biomass Samples**  
ÇALIŞKAN A., AÇMA H., YAMAN S.  
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