

## Prof. Serdar Yaman

### Personal Information

Office Phone: [+90 212 285 3351](tel:+902122853351)

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

Email: [yamans@itu.edu.tr](mailto:yamans@itu.edu.tr)

Web: <http://akademi.itu.edu.tr/yamans/>

Address: İTÜ Kimya-Metalurji Fakültesi, 34469, Maslak, İstanbul

### International Researcher IDs

ScholarID: Svy\_yGMAAAAJ

ORCID: 0000-0002-0306-0901

ScopusID: 7003367612

Yoksis Researcher ID: 4368

### Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1992 - 1996

### Foreign Languages

English

### Dissertations

Doctorate, Bazı Türk Linyitlerinin Kükürt İçeriklerinin Azaltılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 1996

Postgraduate, Bazı Türk linyitlerinin mineral içerikleri, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 1992

### Research Areas

Chemical Engineering and Technology, Chemical Technologies, Fuels and Combustion Technology, Engineering and Technology

### Academic Titles / Tasks

Professor, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2007 - Continues

Associate Professor, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1999 - 2007

Assistant Professor, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1996 - 1999

Research Assistant, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1991 - 1996

### Courses

Biofuels and Bioenergy, Undergraduate, 2013 - 2014  
Energy Conservation in Industry, Undergraduate, 2013 - 2014  
Solid Fuel Technology, Postgraduate, 2013 - 2014  
Proses Kontrol, Undergraduate, 2013 - 2014  
Kömür Bilimi ve Teknolojisi, Postgraduate, 2013 - 2014  
Biyokütle ve Dönüşüm Teknolojisi, Postgraduate, 2013 - 2014  
Carbon and Carbon Related Materials, Postgraduate, 2013 - 2014  
Endüstride Enerji Tasarrufu, Undergraduate, 2013 - 2014

## Advising Theses

Yaman S., EFFECT OF LIGNIN, EXTRACTIVE MATTER, HOLOCELLULOSE, AND ALPHA CELLULOSE OF BIOMASS ON CALORIFIC VALUE, Postgraduate, Ö.ECEM(Student), 2022  
Yaman S., Estimation of higher heating value of refuse derived fuel from proximate and ultimate analysis, Postgraduate, Y.RASHNOVADİ(Student), 2022  
Yaman S., Linyit, biyokütle ve karışımlarından elde edilen yanmaoranı değerlerine sıcaklığın etkisinin makine öğrenmesiile modellenmesi, Postgraduate, Ö.DEMİR(Student), 2022  
Yaman S., Computer-aided exergy and energy analysis of the vacuum distillation unit, Postgraduate, S.KURBAN(Student), 2021  
Yaman S., İlaç üretim tesisinde şehir şebeke suyundan saf su üretim prosesi ekserji analizi, Postgraduate, C.TULUNAY(Student), 2021  
Yaman S., Biyokütle ve kömür birlikte yakma sistemlerinde sinerji araştırması, Postgraduate, S.ÖZSOY(Student), 2020  
Yaman S., Cogeneration power plant and biodiesel process design, simulation and exergy analysis, Postgraduate, M.MAHBOOBIFAR(Student), 2020  
Yaman S., Katı yakıtların yanma reaktivitesinin farklı yaklaşımlarla incelenmesi, Postgraduate, B.BİLKİÇ(Student), 2019  
Yaman S., Elektrospinning yöntemi ile doğal selülozdan nanofiber elde edilmesi, Postgraduate, A.GÖZDE(Student), 2018  
Yaman S., Dizel motor emisyon düzenlemeleri için LNT'nin matematiksel olarak modellenmesi, Postgraduate, F.ORÇUN(Student), 2017  
Yaman S., Modeling and Experimental Approaches in Biomass Pyrolysis: Artificial Neural Network Application & Guard-bed Reactor Integration, Doctorate, Ö.Çepelioğullar(Student), 2017  
Yaman S., Belediye Katı Atıklarının Termal Yöntemlerle Bertarafı - Teknolojik ve Ekonomik İncelemesi, Postgraduate, F.Avcı(Student), 2016  
Yaman S., Adana Tufanbeyli Linyit Kömürünün Tanecik Boyutunun Yanma Özelliklerine Etkisi, Postgraduate, Ç.Mustafaoğlu(Student), 2014  
Yaman S., The comparison of effects of torrefaction and carbonization treatments on biomass, Postgraduate, E.BİLGİÇ(Student), 2014  
Yaman S., Hydrodeoxygenation of Lignin Model Compounds to Liquid Fuel Components, Postgraduate, O.Kurşun(Student), 2012  
Yaman S., Soma Deniz Kömürü ve Ayçekirdeği Kabuğu Yarıkokunun Birlikte Briketlenmesi, Postgraduate, F.Ulu(Student), 2011  
Yaman S., Düşey Boru Fırında Biyokütlenin Termal Davranımlarının İncelenmesi, Postgraduate, A.Baykan(Student), 2011  
Yaman S., Biyokütlenin Termal Bozunma Süreçlerindeki Gaz Ürünlerin İncelenmesi, Postgraduate, Ş.Gölbashi(Student), 2009  
Yaman S., The Effects of Some Catalysts on the Gasification of Sunflower Seed Shell, Postgraduate, E.Çağlayan(Student), 2006  
Yaman S., Investigation of the Non-isothermal Combustion Kinetics of Some Agricultural Residues, Postgraduate, S.Yücel(Student), 2006  
Yaman S., Biyokütle Bileşenlerinin Biyokütlenin Termal Davranımına Etkileri, Postgraduate, H.Orak(Student), 2005  
Yaman S., İlaç Endüstrisinde Validasyon Uygulamaları, Postgraduate, R.Tahir(Student), 2005  
Yaman S., Biyokütlenin Briket Üretiminde Kullanımı, Postgraduate, M.Şahan(Student), 1999

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

- I. **Effects of torrefaction after pelleting (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. **Mechanical properties of a carbon fiber reinforced epoxy resin composite improved by integrating multi-walled carbon nanotubes and graphene nanoplatelets**  
Yüksel E., Eksik O., Açma H., Yaman S.  
JOURNAL OF COMPOSITE MATERIALS, vol.1, no.1, pp.1-11, 2024 (SCI-Expanded)
- III. **Calorific value prediction of coal and its optimization by machine learning based on limited samples in a wide range**  
Büyükkanber K., Açma H., Yaman S.  
Energy, vol.277, 2023 (SCI-Expanded)
- IV. **Hydrophobic and oleophilic carbon fiber aerogel for oil/water separation**  
Aytekin M., Açma H., Yaman S.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-11, 2023 (SCI-Expanded)
- V. **Combustion reactivity estimation parameters of biomass compared with lignite based on thermogravimetric analysis**  
Bilkic 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)
- VI. **Treating lignocellulosic biomass with dilute solutions at ambient temperature: effects on cellulose crystallinity**  
Açma H., Yaman S.  
BIOMASS CONVERSION AND BIOREFINERY, 2022 (SCI-Expanded)
- VII. **Evaluation of Synergy Between Lignite and Carbonized Biomass During Co-Combustion**  
Aydemir S. O., Açma H., Yaman S.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.144, no.5, 2022 (SCI-Expanded)
- VIII. **Prediction of Calorific Value of Coal by Multilinear Regression and Analysis of Variance**  
Sozer M., Haykiri-Acma H., Yaman S.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.144, no.1, 2022 (SCI-Expanded)
- IX. **Electrospun cellulose nanofibers from toilet paper**  
Kiper A. G., Ozyuguran A., Yaman S.  
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, vol.22, no.6, pp.1999-2011, 2020 (SCI-Expanded)
- X. **Burning Resistance of Lignitic Coals under Oxygen-Enriched Conditions**  
UĞUZ Ö., Haykiri-Acma H., Yaman S.  
Journal of Energy Resources Technology, Transactions of the ASME, vol.142, no.8, 2020 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **Synergistic Interactions During Cocombustion of Lignite, Biomass, and Their Chars**

Sarikaya A. C., Acma H., Yaman S.

JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.141, no.12, 2019 (SCI-Expanded)

- XIV. **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)
- XV. **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)
- XVI. **Effects of Pretreatment Outside of Torrefaction Range on Combustion Characteristics of Chars from Lignocellulosic Biomass**  
Sarikaya A. C., Haykiri-Acma H., Yaman S.  
Journal of Thermal Science and Engineering Applications, vol.11, no.5, 2019 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **Optimal use of condensed parameters of ultimate analysis to predict the calorific value of biomass**  
Ozyuguran A., Akturk A., Yaman S.  
Fuel, vol.214, pp.640-646, 2018 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLl. **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)
- 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. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **Effect of the Heating Rate on the Morphology of the Pyrolytic Char from Hazelnut Shell**  
Yaman S.  
International Journal of Green Energy, vol.6, no.5, pp.508-511, 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. **Influence of heating rate on the burning profiles of hazelnut shell**  
Yaman S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.29, no.5, pp.483-490, 2007 (SCI-Expanded)
- LVI. **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)
- 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. **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)

- 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. **Pyrolysis of biomass to produce fuels and chemical feedstocks**  
Yaman S.  
ENERGY CONVERSION AND MANAGEMENT, vol.45, no.5, pp.651-671, 2004 (SCI-Expanded)
- LXI. **Stepwise demineralisation and chemical isolation of the mineral matter of Goynuk lignite**  
Yaman S., YAVUZ R., KUCUKBAYRAK S., TAPTIK Y.  
ENERGY CONVERSION AND MANAGEMENT, vol.42, no.18, pp.2119-2127, 2001 (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. **Influence of wet oxidation on the surface area and the porosity of some lignites**  
Yaman S., KARATEPE N., KUCUKBAYRAK S.  
FUEL, vol.79, no.9, pp.1017-1022, 2000 (SCI-Expanded)
- LXV. **Influence of oxidation in aqueous medium on the structure and properties of lignites**  
Yaman S., KUCUKBAYRAK S.  
FUEL, vol.79, no.7, pp.777-783, 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. **Influence of oxidative treatments on the thermal reactivity of lignites**  
Yaman S., CINPOLAT E., KARATEPE N., KUCUKBAYRAK S.  
THERMOCHIMICA ACTA, vol.335, pp.63-68, 1999 (SCI-Expanded)
- LXVIII. **Sulfur Removal from Gediz Lignite Using Aqueous Sodium Hydroxide Solutions under Mild Oxidative Conditions**  
Yaman S., OSKAY S.  
ENERGY SOURCES, vol.21, no.9, pp.829-838, 1999 (SCI-Expanded)
- LXIX. **Effect of oxydesulphurization on the combustion characteristics of coal**  
Yaman S., KUCUKBAYRAK S.  
THERMOCHIMICA ACTA, vol.293, pp.109-115, 1997 (SCI-Expanded)
- LXX. **Sulfur removal from lignite by oxydesulfurization using fly ash**  
Yaman S., KUCUKBAYRAK S.  
FUEL, vol.76, no.1, pp.73-77, 1997 (SCI-Expanded)
- LXXI. **Oxydesulfurization of a Turkish hard lignite with ammonia solutions**  
Yaman S., KUCUKBAYRAK S.  
ENERGY SOURCES, vol.18, no.6, pp.677-683, 1996 (SCI-Expanded)
- LXXII. **Oxydesulfurization of a Turkish lignite using trona solutions**  
Yaman S., KUCUKBAYRAK S.  
ENERGY SOURCES, vol.18, no.4, pp.461-471, 1996 (SCI-Expanded)
- LXXIII. **Kinetics of sulphur removal from coal by oxydesulphurization using trona**  
Yaman S., KUCUKBAYRAK S.  
FUEL PROCESSING TECHNOLOGY, vol.47, no.2, pp.195-201, 1996 (SCI-Expanded)
- LXXIV. **Mineral Matter Identification of Some Turkish Lignites**  
Yaman S., TAPTIK İ. Y., OSKAY S., Kadioğlu E.  
ENERGY SOURCES, vol.17, no.1, pp.3-9, 1995 (SCI-Expanded)
- LXXV. **Chemical Coal Desulphurization Research in Turkey**

Yaman S., MERİÇBOYU A., OSKAY S.

FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL, vol.13, no.1, pp.49-58, 1995 (SCI-Expanded)

**LXXVI. SULFATION CAPACITIES OF NATURAL TURKISH LIMESTONES AND DOLOMITES**

ERSOYMERİCBOYU A., KUCUKBAYRAK S., Yaman S.

ENVIRONMENTAL TECHNOLOGY, vol.14, no.8, pp.787-794, 1993 (SCI-Expanded)

## Articles Published in Other Journals

**I. Prediction of calorific value of biomass based on elemental analysis**

ARİFOĞLU A., YAMAN S., OSKAY S.

International Advanced Researches and Engineering Journal, vol.2, no.3, pp.254-260, 2018 (Peer-Reviewed Journal)

**II. Effect of functional group distribution on combustion characteristics of chars from Afsin 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)

**III. Prediction of calorific value of biomass based on elemental analysis**

Özyuğuran A., Yaman S., Küçükbayrak S.

International Advanced Researches and Engineering Journal, vol.2, no.3, pp.254-260, 2018 (Peer-Reviewed Journal)

**IV. 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)

## Books & Book Chapters

**I. Effects of Pyrolysis Conditions on Structural Ingredients and Functional Groups of Hybrid Poplar**

Yaman S.

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**I. Heavy Metal Adsorption using Torrefied Corn Stalk**



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- II. **FARKLI KÖMÜR TÜRLERİNİN ÜST ISIL DEĐERLERİNİN ÇOKLU LİNEER REGRESYON YÖNTEMİYLE BELİRLENMESİ**  
Büyükkanber K., Sözer M., Ama H., Yaman S.  
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- III. **Exergy Analysis of Vacuum Distillation Unit**  
Kurban S., Kuşođlu Kaya G., Yaman S.  
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- IV. **Applicability of regression analysis on the oxygen enriched combustion of AdiyamanGolbasi lignite**  
UĐUZ Ö., DEMİRÇİ A., AMA H., YAMAN S.  
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- V. **Applicability of regression analysis on the oxygen enriched combustion of Kutahya-Tuncbilek lignite**  
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- IX. **Investigation of kinetic parameters for combustion of pet bottle caps with lignite**  
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- X. **Biyokütlenin Isıl Deđerinin Kısa Analiz ve Elementel Analiz Sonuçlarının Birlikte Kullanılmasıyla Belirlenmesi**  
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- XI. **Determination of Thermal Behaviour of Afşin-Elbistan Lignite and Chars Produced from Lignite at Different Temperatures**  
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- XIV. **Effect of Functional Group Distribution on Combustion Characteristics of Chars from Afsin Elbistan Lignite and RDF**  
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- XVII. **Prediction of Calorific Value of Biomass Based on Elemental Analysis**  
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- XIX. **Thermal Analyses of Turkish Lignites During Combustion**  
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- XX. **Investigation of Co-firing Behaviors and Kinetic Study of Several Biomass/Lignite Blends**  
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- XXI. **Kinetic Study of Kütahya-Tunçbilek Lignite during Oxygen Enriched Conditions**  
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- XXII. **Inorganic Impurities in Isolated Polymers from Renewable Biomass Resources**  
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- XXIII. **Comparison of the fuel properties and the combustion behavior of PET bottle caps with lignite**  
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- Yaman S., Açma H., Project Supported by Higher Education Institutions, Lignoselülozik Biyokütlelerdeki Selülozun Kristal Yapısının Seyreltik Çözeltiler Kullanılarak Amorf Yapıya Dönüştürülmesi, 2022 - 2023
- Açma H., Yaman S., Project Supported by Higher Education Institutions, Yüksek Lignin İçerikli Biyokütlelerden Üretilen Biyopeletlerin Torrefikasyon İşlemiyle Suya Dayanım Özelliğinin İyileştirilmesi, 2022 - 2023
- Yaman S., Bilkiç B., Project Supported by Higher Education Institutions, Katı Yakıtların Yanma Reaktivitesinin Farklı Yaklaşımlarla İncelenmesi, 2018 - 2020
- Yaman S., Project Supported by Higher Education Institutions, Dizel Motor Emisyon Düzenlemeleri için LNT'nin Matematiksel Olarak Modellenmesi, 2016 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Elektrospinning Yöntemi ile Selülozca Zengin Biyokütlelerden Biyo-bazlı Nano-lif Üretimi ve Karakterizasyonu, 2016 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Production of Fuel Pellets From Carbonized Biomass and lignite, 2012 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Moderation of the Excess Heat From Oxy-combustion of by Blending with Biomass, 2011 - 2018
- Yaman S., Project Supported by Higher Education Institutions, FINDIK KABUĞUNUN GAZLAŞTIRILMASI SONUCUNDA AÇIĞA ÇIKAN KONSTRASYONLU GAZ ÜRÜNLERİNİN ARAŞTIRILMASI, 2010 - 2018
- Yaman S., Project Supported by Higher Education Institutions, KÖMÜRÜN BİYOKÜTLE İLE PİROLİZİ SIRASINDA BİYOKÜTLENİN TGA YÖNTEMİ İLE ANALİZ EDİLMESİ, 2009 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Çeşitli Kömürlerin Melez Kavak ile Birlikte Pirolizi, 2007 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Bazı Bitkisel Biyokütle Atıklarındaki Majör Bileşenlerin Piroliz ve Yanma Proseslerindeki Etkilerinin İncelenmesi, 2006 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Linyit Kömürünün ve Fındık Kabuğunun Birlikte Pirolizi, 2005 - 2018
- Yaman S., Project Supported by Higher Education Institutions, Biyokütlenin Termal Bozunumunun Yapay Sinir Ağları ile Modellenmesi, 2015 - 2017
- Yaman S., Project Supported by Higher Education Institutions, Torrefaction ve Karbonizasyon İşlemlerinin Biyokütleye Etkilerinin Karşılaştırılması, 2014 - 2015

Yaman S., Project Supported by Higher Education Institutions, Tufanbeyli Kömürünün Tanecik Bıyutunun Yanma Özelliklerine Etkisi, 2010 - 2015

Yaman S., Project Supported by Higher Education Institutions, Biyokütlenin Termal Bozunma Süreçlerindeki Gaz Ürünlerinin İncelenmesi, 2008 - 2015

Yaman S., Project Supported by Higher Education Institutions, Ay Çekirdeği Kabuğundan Dumansız Biyobriket Üretimi, 2010 - 2012

Yaman S., Project Supported by Higher Education Institutions, Düşey Boru Fırında Biyokütlenin Termal Davranımlarının İncelenmesi, 2010 - 2012

Yaman S., Project Supported by Higher Education Institutions, Çeşitli kömürlerin ve Biyokütle Kaynaklarının Birlikte Pirolizindeki ve Birlikte Yakılmasındaki Sinerjinin İncelenmesi, 2006 - 2008

Yaman S., Project Supported by Higher Education Institutions, Çeşitli katalizörlerin, ayçiçeği kabuğunun gazlaştırılma prosesindeki etkilerinin araştırılması, 2005 - 2006

Yaman S., Project Supported by Higher Education Institutions, Biyokütlenin Yanma Mekanizmasının Modellenmesi, 2005 - 2006

Yaman S., Project Supported by Higher Education Institutions, Biyokütle Bileşenlerinin Termal Davranımının İncelenmesi, 2005 - 2006

Yaman S., Project Supported by Other Official Institutions, DPT Projesi Bitkisel Atıkların Enerji Kaynağı Olarak Kullanılması, 1999 - 2005

Yaman S., Project Supported by Higher Education Institutions, Mikrodalgaın Kömürden Kimyasal Yolla Kükürt Giderilmesindeki Etkilerinin Araştırılması, 1998 - 2005

Yaman S., Project Supported by Higher Education Institutions, Biyokütlenin Briketlenmesi, 1998 - 1999

Yaman S., Project Supported by Higher Education Institutions, Oksitleyici Kükürt Giderme Yöntemlerini Bazı Türk Linyitlerin Fiziksel ve Kimyasal Özelliklerine, 1998 - 1998

## Metrics

Publication: 131

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H-Index (Scopus): 26

## Awards

Yaman S., Performans Ödülü, İstanbul Teknik Üniversitesi , May 2023

Yaman S., Performans Ödülü, İstanbul Teknik Üniversitesi, May 2022

Yaman S., En Başarılı Doktora Tez Ödülü, İstanbul Teknik Üniversitesi, June 2017

Yaman S., Seçkin Eğitimci Ödülü, İstanbul Teknik Üniversitesi, June 2012

## Non Academic Experience

İstanbul Teknik Üniversitesi

İstanbul Teknik Üniversitesi