

# Prof. HÜSEYİN KARACA

## Personal Information

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## International Researcher IDs

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Yoksis Researcher ID: 6173

## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 1994 - 1998

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 1991 - 1993

Undergraduate, Ankara University, Fen Fakültesi, Kimya Mühendisliği, Turkey 1986 - 1990

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Katalizör Emdirme Yöntemi İle Bazı Türk Linyitlerinin Sivilaştırılması , Inonu University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 1998

Postgraduate, Bazı Türk Linyitlerinden Kül Ve Kükürdün Birlikte Giderilmesinde Optimum Şartların Belirlenmesi, Inonu University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 1993

## Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Chemical Reaction Engineering, Engineering and Technology

## Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2012 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2005 - Continues

Assistant Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 1999 - Continues

Research Assistant PhD, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 1998 - Continues

Research Assistant, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 1991 - Continues

## Academic and Administrative Experience

Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2016 - 2017

Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2014 - 2017

Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2007 - 2008

Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2006 - 2008

## Courses

- Proses Tasarımı-I, Undergraduate, 2017 - 2018  
Kimyasal Reaksiyon Mühendisliği-I, Undergraduate, 2017 - 2018  
Hava Kirliliği ve Kontrol Yöntemleri, Postgraduate, 2017 - 2018  
Kömür Bilimi ve Teknolojisi, Postgraduate, 2017 - 2018  
Kimya Mühendisliği Laboratuvar-I, Undergraduate, 2017 - 2018  
Proses Tasarımı-II, Undergraduate, 2017 - 2018  
Standardizasyon Ve Kalite, Undergraduate, 2017 - 2018  
Kimya Mühendisliği Laboratuvar-II, Undergraduate, 2017 - 2018  
Kimyasal Reaksiyon Mühendisliği-II, Undergraduate, 2017 - 2018  
00408 STANDARDİZASYON VE KALİTE, Undergraduate, 2017-2018  
KM 501 KÖMÜR BİLİMİ VE TEKNOLOJİSİ, Undergraduate Double Major, 2017-2018  
00407 PROSES KONTROL, Undergraduate, 2017-2018  
KM 950 TEZ YÖNETİMİ, Undergraduate Double Major, 2017-2018  
00307 YAKIT VE YANMA TEKNOLOJİSİ, Undergraduate, 2017-2018  
00302 KİMYASAL REAKSİYON MÜHENDİSLİĞİ- II, Undergraduate, 2017-2018  
KM512 HAVA KİRLİLİĞİ VE KONTROLÜ, Undergraduate Double Major, 2017-2018  
00402 KİMYASAL TEKNOLOJİLER, Undergraduate, 2017-2018  
00301 KİMYASAL REAKSİYON MÜHENDİSLİĞİ- I, Undergraduate, 2017-2018  
00403 PROSES TASARIMI I, Undergraduate, 2017-2018  
Proses Kontrol , Undergraduate, 2017 - 2018  
KM 750 UZMANLIK ALAN DERSİ, Undergraduate Double Major, 2017-2018  
00403 PROSES TASARIMI II, Undergraduate, 2017-2018  
00406 KİMYA MÜH.LAB. II, Undergraduate, 2017-2018  
00405 KİM. MÜH. LAB-I, Undergraduate, 2017-2018  
00407 PROSES KONTROL, Undergraduate, 2016-2017  
KM 750 UZMANLIK ALAN DERSİ, Undergraduate, 2016-2017  
KM 950 TEZ YÖNETİMİ, Undergraduate, 2016-2017  
00409 BİYOYAKITLAR, Undergraduate, 2016-2017  
00403 PROSES TASARIMI I, Undergraduate, 2016-2017  
Kimyasal Teknoloji , Undergraduate, 2016 - 2017  
00405 KİM. MÜH. LAB-I, Undergraduate, 2016-2017  
KM 505 İLERİ MÜHENDİSLİK MATEMATİĞİ, Undergraduate, 2016-2017  
00307 YAKIT VE YANMA TEKNOLOJİSİ, Undergraduate, 2016-2017  
KM 505 İleri Mühendislik Matematği, Undergraduate Double Major, 2015-2016  
00302 Kimyasal Reaksiyon Mühendisliği- II, Undergraduate, 2015-2016  
00301 Kimyasal Reaksiyon Mühendisliği- I, Undergraduate, 2015-2016  
00402 Kimyasal Teknolojiler, Undergraduate, 2015-2016  
00403 Proses Tasarımı II, Undergraduate, 2015-2016  
KM 602 Heterojen Kataliz ve Katalitik Prosesler, Undergraduate Minor, 2015-2016  
00403 Proses Tasarımı I, Undergraduate, 2015-2016  
00404 PROSES TASARIMI II, Undergraduate, 2013-2014  
00409 BİYOYAKITLAR, Undergraduate, 2013-2014  
KM 553 Biyokimyasal Reaksiyon Mühendisliği, Undergraduate Minor, 2013-2014

00310 Enerji Teknolojisi, Undergraduate, 2013-2014  
KM 950 TEZ YÖNETİMİ, Undergraduate Minor, 2013-2014  
00403 Proses Tasarımı II, Undergraduate, 2013-2014  
00402 KİMYASAL TEKNOLOJİLER, Undergraduate, 2013-2014  
00403 PROSES TASARIMI-I, Undergraduate, 2013-2014  
00406 KİMYA MÜH.LAB. II, Undergraduate, 2013-2014  
00405 KİM. MÜH. LAB-I, Undergraduate, 2013-2014  
00307 YAKIT VE YANMA TEKNOLOJİSİ, Undergraduate, 2013-2014  
00402 Kimyasal Teknolojiler, Undergraduate, 2013-2014  
00407 PROSES KONTROL, Undergraduate, 2013-2014  
KM 501 Kömür Bilimi ve Teknolojisi, Undergraduate Minor, 2013-2014  
00403 Proses Tasarımı I, Undergraduate, 2013-2014  
KM 750 UZMANLIK ALAN DERSİ, Undergraduate Minor, 2013-2014  
00403 Proses Tasarımı II, Undergraduate, 2011-2012  
00402 Kimyasal Teknolojiler, Undergraduate, 2011-2012  
00403 Proses Tasarımı I, Undergraduate, 2011-2012  
00402 Kimyasal Teknolojiler, Undergraduate, 2009-2010  
00402 Kimyasal Teknolojiler, Undergraduate, 2007-2008  
00402 Kimyasal Teknolojiler, Undergraduate, 2005-2006

## Advising Theses

KARACA H., Elbistan Linyiti ve Biyokütleinin Birlikte Sıvılaştırılması, Postgraduate, M.Karta(Student), 2017  
KARACA H., Elbistan Linyiti ve Biyokütleinin Katalitik Koşullarda Birlikte Sıvılaştırılması, Postgraduate, C.Koyunoğlu(Student), 2012  
KARACA H., Geliştirilecek Yeni Bir Yöntemle Yüksek Kükürtlü Fuel-oil' den Kükürt Uzaklaştırılması, Postgraduate, Z.Yıldız(Student), 2010

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

- I. **Production of activated carbon from duckweed and its effectiveness in crystal violet adsorption**  
Olam M., Gündüz F., KARACA H.  
BIOMASS CONVERSION AND BIOREFINERY, 2023 (SCI-Expanded)
- II. **Obtaining the best temperature parameters for co-carbonization of lignite (yatagan)-biomass (peach seed shell) by structural characterization**  
Gunduz F., Akbulut Y., Koyunoglu C., ÖNAL Y., KARACA H.  
HELIYON, vol.8, no.9, 2022 (SCI-Expanded)
- III. **Characterization of products obtained of waste polyethylene terephthalate by pyrolysis**  
Olam M., KARACA H.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.41, no.4, 2022 (SCI-Expanded)
- IV. **Modelling DME production from synthetic gases with a fluidized bed reactor: A CFD approach**  
Koyunoglu C., KARACA H., SOYHAN H. S.  
FUEL, vol.304, 2021 (SCI-Expanded)
- V. **A new catalyst (colemanite) for coal-to-liquid technology; a case study for the liquefaction of Elbistan Lignite: the effect of colemanite and Fe<sub>2</sub>O<sub>3</sub> catalyst blending**  
Koyunoglu C., KARACA H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.60, pp.32095-32100, 2019 (SCI-Expanded)
- VI. **Co-processing behavior of Golbasi lignite and poplar sawdust by factorial experimental design method**

KARACA H., Koyunoglu C., Ozdemir A., Ergun K.  
ENERGY, vol.183, pp.1040-1048, 2019 (SCI-Expanded)

- VII. **Proving hydrogen addition mechanism from manure to coal surface obtained by GC-MS and H-1-NMR analysis**  
Koyunoglu C., KARACA H.  
SCIENTIFIC REPORTS, vol.9, 2019 (SCI-Expanded)
- VIII. **Co-liquefaction process olive bagasse and peat with lignite and the effect of biomasses on the products and oil yield**  
Depci T., Karta M., KARACA H.  
ENERGY, vol.156, pp.750-757, 2018 (SCI-Expanded)
- IX. **Hydrogen transfer during co- liquefaction of Elbistan lignite and biomass: liquid product characterization approach**  
KARACA H.  
Energy Sources, Part A: Recovery, Utilization, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.40, pp.244-250, 2018 (SCI-Expanded)
- X. **Hydrogen transfer during co-liquefaction of Elbistan lignite and biomass: liquid product characterization approach**  
Koyunoglu C., KARACA H.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.40, no.2, pp.244-250, 2018 (SCI-Expanded)
- XI. **Co-liquefaction of Yataa lignite and waste tire under catalytic conditions. Part 1. Effect of fresh tetraline and recycled tetraline on the conversion**  
Koyunoglu C., Eksioglu O., Yildirim O., KARACA H.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.40, no.9, pp.1068-1075, 2018 (SCI-Expanded)
- XII. **LIQUEFACTION OF NIGDE-ULUKISLA OIL SHALE: THE EFFECTS OF PROCESS PARAMETERS ON THE CONVERSION OF LIQUEFACTION PRODUCTS**  
KARTAL Ö. E., AKIN S., HASCAKIR B., KARACA H.  
OIL SHALE, vol.34, no.4, pp.336-353, 2017 (SCI-Expanded)
- XIII. **Effect of coal liquefaction conditions on the composition of the product oil**  
Karaca H.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.28, no.16, pp.1483-1492, 2006 (SCI-Expanded)
- XIV. **Desulphurization kinetics of number 6 fuel oil via a chemical method**  
KARACA H., Yildiz Z.  
Petroleum Science and Technology, vol.23, no.1, pp.17-28, 2005 (SCI-Expanded)
- XV. **Effects of coal liquefaction parameters on the removal of oxygen and the higher heating value of the soluble products**  
Karaca H.  
ENERGY SOURCES, vol.27, no.9, pp.797-807, 2005 (SCI-Expanded)
- XVI. **Determination of optimum process parameters in desulphurization of fuel oil**  
Yidiz Z., Karaca H.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.23, pp.371-384, 2005 (SCI-Expanded)
- XVII. **Desulfurization of fuel by leaching using H<sub>2</sub>O<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub>**  
Karaca H., Yildiz Z.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.23, pp.285-298, 2005 (SCI-Expanded)
- XVIII. **Demineralisation of lignites by single and successive pretreatment**  
KARACA H., Onal Y.  
FUEL, vol.82, no.12, pp.1517-1522, 2003 (SCI-Expanded)
- XIX. **Effects of the reaction conditions on the distribution of sulphur among the products of the catalytic dissolution of Turkish lignites**

- Karaca H., Ceylan K.  
FUEL, vol.81, no.13, pp.1767-1771, 2002 (SCI-Expanded)
- XX. **Thermogravimetric analysis of pretreated Turkish lignites**  
CEYLAN K., KARACA H., Onal Y.  
FUEL, vol.78, no.9, pp.1109-1116, 1999 (SCI-Expanded)
- XXI. **Chemical cleaning of Turkish lignites by leaching with aqueous hydrogen peroxide**  
Karaca H., Ceylan K.  
FUEL PROCESSING TECHNOLOGY, vol.50, no.1, pp.19-33, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Co-liquefaction of Tunçbilek lignite with algae (spirulina species): Effect of process parameters and characterization of chars and oils**  
ÇAVUŞOĞLU B., KOYUNOĞLU C., KARACA H.  
Results in Engineering, vol.16, 2022 (Peer-Reviewed Journal)
- II. **Calculating economical impact by standard chemical exergy value and environmental impact by life cycle assessment method for desulfurization from Elbistan Lignite with leaching process (H<sub>2</sub>O<sub>2</sub>/H<sub>2</sub>SO<sub>4</sub>)**  
Karaca H., Koyunoğlu C., Yeşilyurt K., Çelik M., Yeşilyurt Ö.  
Cleaner Chemical Engineering, vol.3, pp.1-15, 2022 (Peer-Reviewed Journal)
- III. **Effect of Sodium Boron Hydride (NaBH<sub>4</sub>) on Waste Polyethylene Terephthalate Pyrolysis**  
Karaca H., Olam M.  
IOP Conference Series: Earth and Environmental Science, vol.362, pp.1-9, 2019 (Peer-Reviewed Journal)
- IV. **Application of industry 4.0 on biomass liquefaction study: a case study**  
KOYUNOĞLU C., KARACA H.  
PROCEDIA COMPUTER SCIENCE, vol.158, pp.401-406, 2019 (Peer-Reviewed Journal)
- V. **REMOVAL OF SULFUR FROM IRON ORE WITH PHYSICAL AND CHEMICAL METHODS**  
ÇAVUŞOĞLU B., KARACA H.  
Journal of the Turkish Chemical Society, Section B: Chemical Engineering, vol.1, no.1, pp.117-128, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Algal Biotechnology for Fuel Applications**  
KARACA H., KOYUNOĞLU C.  
Bentham books, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Ağır Vakum Gaz Yağının Katalitik Kraming (FCC) Prosesi ile Daha Hafif Ürünlere Dönüştürülmesi Üzerine Sıcaklığın Etkisi**  
Farih Alhasan Alweis M., KOYUNOĞLU C., KARACA H.  
35. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 9 - 12 September 2024
- II. **HVGO'nun Katalitik Kraming Prosesi İle Hafif Ürünlere Dönüştürülmesi Üzerine Katalizör Türünün Etkisi**  
Farih Alhasan Alweis M., KOYUNOĞLU C., KARACA H.  
35. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 09 September 2024
- III. **Batch Reactor Modeling and Simulation by MATLAB for Clean Coal Technologies: First and Second**

### **Order Kinetic Modelling Approaches**

OLAM M., GÜNDÜZ F., KOYUNOĞLU C., KARACA H.

Fortieth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE, İstanbul, Turkey, 4 - 06 October 2023

- IV. **Chemical Desulfurization of Low-Rank Muğla-Yatağan and Kütahya-TB Lignites**  
Gündüz F., KARACA H.  
Fortieth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE, İstanbul, Turkey, 4 - 06 October 2023
- V. **Integrating Bentonite Enhanced Algae Cultivation for Biobased Fuel Production from High Furnace Flue Gas: A Numerical Case Analysis**  
Gündüz F., OLAM M., KOYUNOĞLU C., KARACA H.  
Fortieth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE, İstanbul, Turkey, 4 - 06 October 2023
- VI. **Optimization of Ideal Mixing Rate and Catalyst Concentration for Ensuring Homogeneity of Coal and Biomass Liquefied Products in a Reactor**  
OLAM M., KOYUNOĞLU C., KARACA H.  
Fortieth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE, İstanbul, Turkey, 4 - 06 October 2023
- VII. **A Sample Feasibility Calculation For A Coal Liquefaction Plant**  
OLAM M., GÜNDÜZ F., KOYUNOĞLU C., KARACA H.  
Fortieth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE, İstanbul, Turkey, 4 - 06 October 2023
- VIII. **Coal-Algae Liquefaction: A Sustainable Pathway to Renewable Biofuels,**  
Gündüz F., OLAM M., KOYUNOĞLU C., KARACA H.  
Fortieth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE, İstanbul, Turkey, 4 - 06 October 2023
- IX. **AFŞİN-ELBİSTAN TERMİK SANTRALİ B'NİN KAZAN BÖLÜMÜNÜN İŞ SAĞLIĞI VE GÜVENLİĞİ AÇISINDAN DEĞERLENDİRİLMESİ**  
ÇETİN G., KARACA H.  
8. ULUSLARARASI İŞ GÜVENLİĞİ VE ÇALIŞAN SAĞLIĞI KONGRESİ, İstanbul, Turkey, 01 October 2022, pp.225-233
- X. **ORTOPEDİK İMPLANT ÜRETİMİNDE İŞ SAĞLIĞI VE GÜVENLİĞİ**  
İlhan F., Karaca H.  
7. ULUSLARARASI İŞ GÜVENLİĞİ VE ÇALIŞAN SAĞLIĞI KONGRESİ, Adana, Turkey, 14 December 2021, pp.141-143
- XI. **Obtaining combustion behavior of several municipality waste via products using Fuelsim-Average v1.1 program**  
KOYUNOĞLU C., SOYHAN H. S., KARACA H.  
8 th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Turkey, 05 March 2021
- XII. **Obtaining combustion behavior of several municipality waste via products using Fuelsim-Average v1.1 program**  
KOYUNOĞLU C., SOYHAN H. S., KARACA H.  
8 th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.158-162
- XIII. **Liquefied petroleum gas (LPG) market sector report of the Eastern Anatolia region in 2020: A review**  
KOYUNOĞLU C., KARACA H.  
8 th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.309-314
- XIV. **Modelling dme production from synthetic gases with a fixed bed reactor: A cfd approach**  
KOYUNOĞLU C., SOYHAN H. S., KARACA H.  
8 th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.246-249
- XV. **Life cycle assessment (lca) for establishment of adding (1, 10, and 100 ton raw coal co-liquefaction) energy facility to Afşin-Elbistan b powerplant**  
KOYUNOĞLU C., SOYHAN H. S., KARACA H.  
8 th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.240-245
- XVI. **Characterization of activated carbon produced from The chars Obtained from Polyethylene**

**Terephthalate Pyrolysis: Scanning Electron Microscopy (SEM) and Brunauer–Emmett–Teller (BET) approaches**

Gündüz F., Olam M., KOYUNOĞLU C., KARACA H.

International Conference on Innovative Applied Energy (IAPE'20), Cambridge, Canada, 15 - 16 September 2020

- XVII. **Characterization of activated carbon produced from The chars Obtained from Polyethylene Terephthalate Pyrolysis: X-Ray Diffraction (XRD) approach**  
Gündüz F., Olam M., KOYUNOĞLU C., KARACA H.  
International Conference on Innovative Applied Energy (IAPE'20), Cambridge, Canada, 15 - 16 September 2020
- XVIII. **Effect of process parameters on co-liquefaction of Yatağan lignite, Polypropylene and Peach Seed Shell**  
Gündüz F., Olam M., KOYUNOĞLU C., KARACA H.  
International Conference on Innovative Applied Energy (IAPE'20), Cambridge, Canada, 15 December - 16 September 2020
- XIX. **Optimization of process parameters for Nutshell liquefaction: Total conversion, Oil+gas yield approach**  
Gündüz F., Olam M., KOYUNOĞLU C., KARACA H.  
International Conference on Innovative Applied Energy (IAPE'20), Cambridge, Canada, 15 - 16 September 2020
- XX. **LİNYİT (YATAĞAN)-BİYOKÜTLE (ŞEFTALİÇEKİRDEĞİ KABUĞU) KARIŞIMININ FARKLISICAKLIKLARDA KARBONİZASYONU VEKARAKTERİZASYONU**  
Akbulut Y., Gündüz F., ÖNAL Y., KARACA H.  
5. ULUSLARARASI MUHENDİSLİK MİMARLIK VETASARIM KONGRESİ, İstanbul, Turkey, 21 - 22 December 2019
- XXI. **LİNYİT (YATAĞAN)-BİYOKÜTLE (ŞEFTALİ ÇEKİRDEĞİ KABUĞU) KARIŞIMININ KARBONİZASYONUNUN YAPISAL KARAKTERİZASYONU**  
Gündüz F., Akbulut Y., ÖNAL Y., KARACA H.  
5. ULUSLARARASI MUHENDİSLİK MİMARLIK VETASARIM KONGRESİ, İstanbul, Turkey, 21 - 22 December 2019
- XXII. **FINDIK KABUĞUNUN SIVILAŞTIRILMASINDA PARTİKÜL BOYUTUNUN TOPLAM DÖNÜŞÜM VE SIVI VERİMİ ÜZERİNDEKİ ETKİSİ**  
Gündüz F., Olam M., KARACA H.  
5. ULUSLARARASI MUHENDİSLİK MİMARLIK VETASARIM KONGRESİ, İstanbul, Turkey, 21 December 2019
- XXIII. **Removal of organic sulfur from coal with solvent extraction method**  
KARACA H., KOYUNOĞLU C., Deniz İ., Kala N.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- XXIV. **Characterization of Chars obtained in liquefaction of lignite and algae together**  
KARACA H., KOYUNOĞLU C., Duman Y., Küçük İ.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- XXV. **Sulfur removal from Elbistan Lignite with peroxide leaching process (H<sub>2</sub>O<sub>2</sub>/H<sub>2</sub>SO<sub>4</sub>)**  
KARACA H., KOYUNOĞLU C., Yeşilyurt K., Çelik M., Yeşilyurt Ö.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- XXVI. **Effect of Microwave Pre-treatment on Waste Polyethylene Terephthalate (PET) Pyrolysis**  
Olam M., KARACA H.  
WMESS 2019 World Multidisciplinary Earth Sciences Symposium, Prag, 9 - 13 September 2019
- XXVII. **Production Of Activated Carbon From The Residues Obtained From Polyethylene Tereftalat Pyrolysis**  
Olam M., KARACA H., Gündüz F.  
World Multidisciplinary Earth Sciences Symposium, WMESS 2019, Prag, Czech Republic, 9 - 13 September 2019
- XXVIII. **Application of industry 4.0 on biomass liquefaction study: a case study**  
KOYUNOĞLU C., KARACA H.  
3rd World Conference on Technology, Innovation and Entrepreneurship (WOCTINE), İstanbul, Turkey, 21 - 23 June 2019

- XXIX. **Elemental analysis and calorific values of elbistan lignite and liquefaction products**  
KARACA H., KOYUNOĞLU C.  
WMESS 2018 World Multidisciplinary Earth Sciences Symposium, 3 - 07 September 2018
- XXX. **PETROGRAPHIC and PROXIMATE analysis of Elbistan Lignite and liquefaction products**  
KOYUNOĞLU C., KARACA H.  
WMESS 2018 World Multidisciplinary Earth Sciences Symposium, 3 - 07 September 2018
- XXXI. **The Characterization of The Products Obtained by Co-Liquefaction of Elbistan Lignite and Apricot Kernel Shell**  
KARACA H., Olam M., Çavuşoğlu B.  
World Multidisciplinary Earth Sciences Symposium, WMESS 2018, Prag, Czech Republic, 3 - 07 September 2018
- XXXII. **The effects of process parameters on the co-liquefaction of Elbistan Lignite and Apricot Kernel Shell**  
KARACA H., Çavuşoğlu B., Olam M.  
World Multidisciplinary Earth Sciences Symposium, WMESS 2018, Prag, Czech Republic, 3 - 07 September 2018
- XXXIII. **Direct Liquefaction Potential of Balıkesir Olive Baggasee**  
DEPCI T., KARACA H., AYLIKCI V., ATEŞ H., BAHÇECİ E.  
The Sixth European Conference on Renewable Energy Systems (ECRES2018), 25 - 27 June 2018
- XXXIV. **DIRECT LIQUEFACTION POTENTIAL OF BALIKESIR OLIVEBAGASSE**  
DEPCI T., karta m., AYLIKCI V., ATEŞ H., KARACA H., BAHÇECİ E.  
6. EUROPEAN CONFERENCEONRENEWABLE ENERGY SYSTEMS, İstanbul, Turkey, 25 - 27 June 2018, pp.361-366
- XXXV. **FTIR and THERMOGRAVIMETRIC analysis of co-liquefaction products**  
KOYUNOĞLU C., KARACA H.  
ICAT'xx18 7th International Conference on Advanced Technologies, 28 April - 01 May 2018
- XXXVI. **Co-Liquefaction of Golbasi Lignite with Poplar Sawdust**  
Özdemir A., Ergün K., KOYUNOĞLU C., KARACA H.  
8th International Advanced Technologies Symposium, 19 - 22 October 2017
- XXXVII. **Co-liquefaction of Elbistan lignite with Manure biomass; Effect of biomass type, Waste to Lignite Ratio and Solid to liquid Ratio**  
KOYUNOĞLU C., KARACA H.  
World Multidisciplinary Earth Sciences Symposium, WMESS 2017, Prag, Czech Republic, 11 - 15 September 2017
- XXXVIII. **Hydrogen Transfer During Liquefaction of Elbistan Lignite and Biomass**  
KOYUNOĞLU C., KARACA H.  
The Eighth International Conference on Clean Coal Technologies 2017, 8 - 12 May 2017
- XXXIX. **Elbistan Linyiti Torf ve Atık Pirininin Katalitik Olmayan Koşullarda Ayrı Ayrı Sıvılaştırılması Sonucu Oluşan Çarların Karakterizasyonu**  
ÇOŞKUN M. A., KARACA H.  
27. Ulusal Kimya Kongresi, Çanakkale Onsekiz Mart Üniversitesi, Çanakkale, Turkey, 23 - 28 August 2015
- XL. **Liquefaction of Elbistan lignite and biomass under catalytic and noncatalytic conditions**  
YILDIZ Z., KOYUNOĞLU C., KARACA H.  
7th National Chemical Engineering Congress, Eskişehir, Turkey, 05 September 2006, pp.1-7

## Activities in Scientific Journals

Journal of the Turkish Chemical Society, Section B: Chemical Engineering , Committee Member, 2016 - Continues

## Metrics

Publication: 94

Citation (WoS): 120

Citation (Scopus): 154



H-Index (WoS): 5

H-Index (Scopus): 5

## **Congress and Symposium Activities**

The International Advanced Technologies Symposium (IATS17), Attendee, Elazığ, Turkey, 2017

World Multidisciplinary Earth Sciences Symposium, WMESS 2017, Attendee, Praha, Czech Republic, 2017

The Eighth International Conference on Clean Coal Technologies (CCT 2017), Attendee, Cagliari, Italy, 2017

World Multidisciplinary Earth Sciences Symposium, WMESS 2016, Attendee, Praha, Czech Republic, 2016

The Seventh International Conference on Clean Coal Technologies (CCT2015), Attendee, Kraków, Poland, 2015

6th Chemical Engineering Conference For Collaborative Research In Eastern Mediterranean Countries (EMCC-6), Attendee, Antalya, Turkey, 2010

150 Years of Petroleum Industry: Tradition & Challenges, Attendee, Bucuresti, Romania, 2007

The International Conference on Coal Science and Technology, 2007, Attendee, Nottingham, United Kingdom, 2007

16th International Petroleum and Natural Gas Congress and Exhibition of Turkey (IPETGAS07), Attendee, Ankara, Turkey, 2007

GeT Univation! German-Turkish University Conference and Project Marketplace on Applied Research and Innovation, Attendee, Braunschweig, Germany, 2007

14th International Petroleum and Natural Gas Congress and Exhibition of Turkey, Attendee, Ankara, Turkey, 2003

## **Non Academic Experience**

İnönü Üniversitesi

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