

## Assoc. Prof. HALİL DURAK

### Personal Information

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**Post Address:** Yüzüncü Yıl Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu. Zeve kampüsü /VAN

### Education Information

Doctorate, Van Yüzüncü Yıl University, Fen Fakültesi, Fizikokimya, Turkey 2008 - 2012

Post Graduate, Van Yüzüncü Yıl University, Eğitim Fakültesi, Kimya Eğitimi, Turkey 2004 - 2007

Under Graduate, Van Yüzüncü Yıl University, Eğitim Fakültesi, Kimya Öğretmenliği, Turkey 1999 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Tinkalin yüksek sıcaklıklarda fosforik asit çözeltilerinde çözünme kinetiğinin incelenmesi ve optimum şartların belirlenmesi, Van Yüzüncü Yıl University, Fen Fakültesi, Fizikokimya, 2012

Post Graduate, Fizikokimya laboratuvarlarında V-diyagramı kullanımı ve uygulamaları, Van Yüzüncü Yıl University, Eğitim Fakültesi, Kimya Eğitimi, 2007

### Research Areas

Chemical Engineering and Technology, Chemical Technologies, Environmental Chemistry and Technology, Energy, Renewable Energy Systems, Alternative Energy Resources, Ore-Dressing, Chemical-Biological Winning Techniques and Mineral Processing, Chemistry, Physical Chemistry, Chemical Kinetics, Cellulose and its Derivatives, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yıl University, Sağlık Hizmetleri Meslek Yüksekokulu, Sağlık Hizmetleri, 2017 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Sağlık Hizmetleri Meslek Yüksekokulu, Çocuk Sağlığı Ve Gençlik Hizmetleri, 2013 - 2017

Expert, Van Yüzüncü Yıl University, Eğitim Fakültesi, Kimya Eğitimi, 2011 - 2012

Expert, Van Yüzüncü Yıl University, Fen Fakültesi, Fizikokimya, 2009 - 2011

Expert, Van Yüzüncü Yıl University, Sağlık Hizmetleri Meslek Yüksekokulu, Sağlık Hizmetleri, 2007 - 2009

### Professional Experience

Head of Department, Van Yüzüncü Yıl University, Sağlık Hizmetleri Meslek Yüksekokulu, 2014 - Continues

## Courses

Temel Laboratuvar Bilgisi ve Teknikleri, Associate Degree, 2015 - 2016

Laboratuvar Ayırma Teknikleri , Associate Degree, 2015 - 2016

Temel Kimya, Associate Degree, 2013 - 2014

## Jury Memberships

Post Graduate, Tez savunma , Yüzüncü Yıl Üniversitesi, June, 2019

Award, Bilimsel makale ödülü, Yüzüncü Yıl Üniversitesi, December, 2018

Post Graduate, Yüksek Lisans Tez Savunma Sınav Jürisi, Yüzüncü Yıl Üniversitesi, December, 2018

Post Graduate, Yüksek Lisans Tez Savunma Sınav Jürisi, Yüzüncü Yıl Üniversitesi, November, 2018

Appointment Academic Staff, Doktor Öğretim Üyesi Atama Jürisi, Yüzüncü Yıl Üniversitesi, March, 2018

Appointment Academic Staff, Yardımcı doçent alım bilim jürisi, Çanakkale Onsekiz Mart Üniversitesi Lapseki Meslek

Yüksekokulu, December, 2017

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

- **Catalytic hydrothermal liquefaction of lactuca scariola with a heterogeneous catalyst: The investigation of temperature, reaction time and synergistic effect of catalysts**  
DURAK H., Genel S.  
Bioresource Technology, vol.309, 2020 (Journal Indexed in SCI Expanded)
- **Characterization of bio-oil and bio-char obtained from black cumin seed by hydrothermal liquefaction: investigation of potential as an energy source**  
DURAK H., Genel S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (Journal Indexed in SCI)
- **Improving the performance of nuclear protection of  $Al_2Si_2O_5(OH)_4-KAlSi_3O_8-SiO_2$  ceramics with cobalt insertion: an experimental study**  
KAVAZ E., Oto B., DURAK H., Madak Z.  
Journal of the Australian Ceramic Society, 2020 (Journal Indexed in SCI Expanded)
- **Effect of addition of molybdenum on photon and fast neutron radiation shielding properties in ceramics**  
Oto B., KAVAZ E., DURAK H., Aras A., Madak Z.  
CERAMICS INTERNATIONAL, vol.45, pp.23681-23689, 2019 (Journal Indexed in SCI)
- **Bio-oil and bio-char from lactuca scariola: significance of catalyst and temperature for assessing yield and quality of pyrolysis**  
Yucedag E., DURAK H.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (Journal Indexed in SCI)
- **Characterization of products obtained from hydrothermal liquefaction of biomass (*Anchusa azurea*) compared to other thermochemical conversion methods**  
DURAK H.  
BIOMASS CONVERSION AND BIOREFINERY, vol.9, pp.459-470, 2019 (Journal Indexed in SCI)
- **Hydrothermal liquefaction of *Glycyrrhiza glabra* L. (Licorice): Effects of catalyst on variety compounds and chromatographic characterization**  
DURAK H.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.17, pp.1-15, 2019 (Journal Indexed in SCI Expanded)
- **Pyrolysis of black cumin seed: Significance of catalyst and temperature product yields and chromatographic characterization**  
DURAK H., Genel S., Tunç M.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.42, pp.331-350, 2019 (Journal

Indexed in SCI)

- **Hydrothermal liquefaction of Syrian mesquite (*Prosopis farcta*): Effects of operating parameters on product yields and characterization by different analysis methods**  
ÇOLAK U., DURAK H., Genel S.  
Journal of Supercritical Fluids, vol.140, pp.53-61, 2018 (Journal Indexed in SCI)
- **Hydrothermal conversion of biomass (*Xanthium strumarium*) to energetic materials and comparison with other thermochemical methods**  
DURAK H., Genel Y.  
Journal of Supercritical Fluids, vol.140, pp.290-301, 2018 (Journal Indexed in SCI)
- ***Trametes versicolor* (L.) mushrooms liquefaction in supercritical solvents: Effects of operating conditions on product yields and chromatographic characterization**  
DURAK H.  
Journal of Supercritical Fluids, vol.131, pp.140-149, 2018 (Journal Indexed in SCI)
- **Effect of process parameters on supercritical liquefaction of *Xanthium strumarium* for bio-oil production**  
Genel Y., DURAK H., Aysu T., Genel İ.  
Journal of Supercritical Fluids, vol.115, pp.42-53, 2016 (Journal Indexed in SCI)
- **Catalytic effects of borax and iron(III) chloride on supercritical liquefaction of *Anchusa azurea* with methanol and isopropanol**  
Aysu T., DURAK H.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.38, pp.1739-1749, 2016 (Journal Indexed in SCI)
- **Pyrolysis of *Xanthium strumarium* in a fixed bed reactor: Effects of boron catalysts and pyrolysis parameters on product yields and character**  
DURAK H.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.38, pp.1400-1409, 2016 (Journal Indexed in SCI)
- **Thermochemical liquefaction of algae for bio-oil production in supercritical acetone/ethanol/isopropanol**  
DURAK H., Aysu T.  
Journal of Supercritical Fluids, vol.111, pp.179-198, 2016 (Journal Indexed in SCI)
- **Bio-oil production via catalytic pyrolysis of *Anchusa azurea*: Effects of operating conditions on product yields and chromatographic characterization**  
Aysu T., DURAK H., GÜNER S., Bengü A. Ş. , Esim N.  
Bioresource Technology, vol.205, pp.7-14, 2016 (Journal Indexed in SCI)
- **Pyrolysis of giant mullein (*Verbascum thapsus* L.) in a fixed-bed reactor: Effects of pyrolysis parameters on product yields and character**  
Aysu T., DURAK H.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.38, pp.661-669, 2016 (Journal Indexed in SCI)
- **Bio-oil production via catalytic supercritical liquefaction of Syrian mesquite (*Prosopis farcta*)**  
Aysu T., DURAK H.  
JOURNAL OF SUPERCRITICAL FLUIDS, vol.109, pp.26-34, 2016 (Journal Indexed in SCI)
- **Structural analysis of bio-oils from subcritical and supercritical hydrothermal liquefaction of *Datura stramonium* L.**  
DURAK H., Aysu T.  
Journal of Supercritical Fluids, vol.108, pp.123-135, 2016 (Journal Indexed in SCI)
- **Effect of pyrolysis temperature and catalyst on production of bio-oil and bio-char from avocado seeds**  
DURAK H., Aysu T.  
Research on Chemical Intermediates, vol.41, pp.8067-8097, 2015 (Journal Indexed in SCI)
- **Thermochemical conversion of *Phellinus pomaceus* via supercritical fluid extraction and pyrolysis processes**  
Durak H.  
ENERGY CONVERSION AND MANAGEMENT, vol.99, pp.282-298, 2015 (Journal Indexed in SCI)
- **Assessment of avocado seeds (*Persea americana*) to produce bio-oil through supercritical liquefaction**

Aysu T., Durak H.

BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR, vol.9, pp.231-257, 2015 (Journal Indexed in SCI)

- **Thermochemical conversion of Datura stramonium L. by supercritical liquefaction and pyrolysis processes**

Aysu T., DURAK H.

Journal of Supercritical Fluids, vol.102, pp.98-114, 2015 (Journal Indexed in SCI)

- **Bio-oil production from Glycyrrhiza glabra through supercritical fluid extraction**

DURAK H.

Journal of Supercritical Fluids, vol.95, pp.373-386, 2015 (Journal Indexed in SCI)

- **Optimization of the Dissolution of Tincal Ore in Phosphoric Acid Solutions at High Temperatures**

DURAK H., Genel Y., Calban T., KUŞLU S., Colak S.

CHEMICAL ENGINEERING COMMUNICATIONS, vol.202, pp.245-251, 2015 (Journal Indexed in SCI)

- **A Novel pH-Responsive p(AAm-co-METAC)/MMT Composite Hydrogel: Synthesis, Characterization and Its Absorption Performance on Heavy Metal Ions**

İlgin P., DURAK H., Gur A.

POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.54, pp.603-615, 2015 (Journal Indexed in SCI)

- **Catalytic pyrolysis of liquorice (Glycyrrhiza glabra L.) in a fixed-bed reactor: Effects of pyrolysis parameters on product yields and character**

Aysu T., DURAK H.

JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.111, pp.156-172, 2015 (Journal Indexed in SCI)

- **Effects of catalysts and solvents on liquefaction of Onopordum heteracanthum for production of bio-oils**

DURAK H., Aysu T.

Bioresource Technology, vol.166, pp.309-317, 2014 (Journal Indexed in SCI)

- **Hydroxyapatite-nanosphere supported ruthenium(0) nanoparticle catalyst for hydrogen generation from ammonia-borane solution: kinetic studies for nanoparticle formation and hydrogen evolution**

DURAK H., Gülcan M., Zahmakıran M., ÖZKAR S., Kaya M.

RSC ADVANCES, vol.4, pp.28947-28955, 2014 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **BİYOKÜTLENİN KATALİTİK HİDROTERMAL SIVILAŞTIRMA YÖNTEMİ İLE SIVILAŞTIRILMASI**

DURAK H.

TURKISH STUDIES, vol.14, pp.263-278, 2019 (Refereed Journals of Other Institutions)

- **Kimyasal Kinetik Deneylerinde V-diyagramı Kullanımının İncelenmesi**

DURAK H., Genel Y.

YYÜ Eğitim Fakültesi Dergisi (YYU Journal of Education Faculty), vol.15, pp.444-467, 2018 (International Refereed University Journal)

- **Dissolution of Ulexite in Hydrochloric Acid Solutions**

Genel Y., İnce F., Durak H.

Turkish Journal of Science, vol.1, pp.1-12, 2016 (Refereed Journals of Other Institutions)

- **Kinetics of hydrogen generation from the hydrolysis of sodium borohydride using low-cost transition metal salt catalysts**

Durak H., Aysu T.

International Journal of Science Commerce and Humanities, vol.3, pp.1-5, 2015 (Refereed Journals of Other Institutions)

- **The formation of mathematical model for CaCl<sub>2</sub> derived from the reaction of ulexite and hydrochloric acid by using full factorial desing method**

DURAK H., Genel Y., BASHIROV N., KERIMOV G.

Gazi University Journal of Science, vol.26, pp.399-405, 2013 (Refereed Journals of Other Institutions)

- **Mathematical model formation of the process of deriving boric acid from ulexite mineral by full factorial design method**

DURAK H., Genel Y., BASHIROV N., KERIMOV G.

Gazi University Journal of Science, vol.26, pp.261-268, 2013 (Refereed Journals of Other Institutions)

- **Mathematical model formation of the process of deriving boric acid from ulexite mineral by full factorial design method**  
Durak H., Genel Y., Beşirov N., Kerimli G.  
Gazi University Journal Science, vol.26, pp.261-268, 2013 (International Refereed University Journal)
- **Analysis of leaching kinetics of tincal in phosphoric acid solutions in high temperatures**  
Durak H., Genel Y.  
SCIENTIFIC RESEARCH AND ESSAYS, vol.7, pp.3428-3441, 2012 (Refereed Journals of Other Institutions)
- **Full Factorial Design of Production of Hydrogen Gas at Sodiumborohydride with Cobalt Catalyst**  
Beşirov N., Genel Y., Durak H., Kerimli G.  
International Journal of Applied Science and Technology, vol.1, pp.26-34, 2012 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Liquefaction of biomass by hydrothermal liquefaction in the presence of Fe catalyst**  
DURAK H., Genel S.  
III. international congress on new trends in science engineering and technology, Prag, Czech Republic, 6 - 08 August 2019, pp.365
- **LIQUEFACTION OF BIOMASS BY HYDROTHERMAL LIQUEFACTION WITH HETEROGENEOUS CATALYST**  
DURAK H., Genel S.  
MAS - VI INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL & MEDICAL SCIENCES, Kiev, Ukraine, 12 - 14 July 2019, pp.9-10
- **Investigation of hydrothermal liquefaction products of biomass by different analysis methods**  
DURAK H., Genel S.  
4th International Congress on Environmental Research and Technology, Atina, Greece, 14 - 18 November 2018, pp.25
- **Characterization of products obtained from hydrothermal liquefaction of biomass**  
DURAK H., Genel S.  
V. International Multidisciplinary Congress of Eurasia, Barcelona, Spain, 24 - 26 July 2018, pp.296
- **Investigation of liquefaction products of prosopis farcta by different analysis methods**  
ÇOLAK U., DURAK H., Genel S.  
V. International Multidisciplinary Congress of Eurasia, Barcelona, Spain, 24 - 26 July 2018, pp.297
- **Bio-Oil Production Via Catalytic Pyrolysis Of Biomass (Lactuca Scariola) in a Fixed-Bed Reactor**  
Yücedağ E., Durak H.  
international multidisciplinary congress of eurasia, Roma, Italy, 23 - 25 August 2017, pp.354
- **Bio-oil Production From Lactuca Scariola Through Pyrolysis Process**  
Yücedağ E., Durak H.  
international multidisciplinary congress of eurasia, Roma, Italy, 23 - 25 August 2017, pp.353
- **Comparison of thermochemical conversion processes of biomass to bio-oil production**  
Durak H., Kul A. R.  
2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 17 - 21 April 2017, pp.494
- **Bio-oil Production via Subcritical Hydrothermal Liquefaction of Biomass**  
DURAK H.  
International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 18 - 21 April 2017, vol.1833
- **Assessment of cocklebur to produce bio-oil through supercritical metanol**  
Durak H., Genel Y.  
International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, pp.1
- **Supercritical isopropanol extraction of bio-oils from algae**  
Durak H.  
International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, pp.1

- **Bio-oil production from biomass through hydrothermal liquefaction process**  
Durak H., Aysu T., Taşdemir V.  
International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, pp.1
- **Effects of Catalysts on Liquefaction of Agaricus Versicolor (L.)**  
DURAK H.  
International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 21 - 23 April 2016, vol.1726
- **Bio-oil Production from Biomass via Supercritical Fluid Extraction**  
DURAK H.  
International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 21 - 23 April 2016, vol.1726
- **SÜPERKRİTİK SIVILAŞTIRMA YÖNTEMİYLE AVOKADO ÇEKİRDEĞİNDEN BİYOYAĞ ELDESİ**  
Durak H., Aysu T.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.1
- **Bardakçı Kili Üzerine Rhodamin-B'nin Adsorpsiyon Kinetiği**  
Kul A. R. , Alacabey İ., Durak H.  
27. Ulusal kimya kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.5
- **Bio oil production from Datura stramonium L. by liquefaction and pyrolysis processes**  
Durak H., Aysu T.  
IUPAC 2015, 45th World Chemistry Congress, Seoul, South Korea, 14 - 18 August 2015, pp.1
- **Bio-oil Production from Anchusa azurea by supercritical methanol and isopropanol**  
Durak H., Aysu T.  
IUPAC 2015, 45th World Chemistry Congress, Seoul, South Korea, 14 - 18 August 2015, pp.1
- **Thermochemical conversion of Phellinus pomaceus via supercritical fluid extraction and pyrolysis processes**  
Durak H.  
45th World Chemistry Congress, IUPAC-2015, Busan, South Korea, 9 - 14 August 2015, pp.1
- **Liquefaction of Onopordum heteracanthum for production of bio-oils by supercritical fluid extraction**  
Durak H., Aysu T.  
5th EuCheMS Chemistry Congress, İstanbul, Turkey, 1 - 03 September 2014, pp.1
- **Pyrolysis of Liquorice (Glycyrrhiza glabra L.) in a Fixed-bed Reactor: Effects of Pyrolysis Parameters on Product Yields and Character**  
Aysu T., Durak H.  
5th EuCheMS Chemistry Congress, İstanbul, Turkey, 1 - 03 September 2014, pp.1
- **A synthesis of P(AAm-co-METAC)/MMT composite hydrogel and absorption performance on heavy metal ions**  
Durak H., İlgin P., Aysu T.  
5th EuCheMS Chemistry Congress, İstanbul, Turkey, 1 - 03 September 2014, pp.1
- **Removal of crystal violet and methylene blue from aqueous solutions by activated carbon prepared from Ferula orientalis L.**  
Aysu T., Durak H.  
5th EuCheMS Chemistry Congress, İstanbul, Turkey, 1 - 03 September 2014, pp.1
- **Investigation of Drinking Water Availability of Van City Center**  
Ocak S., Durak H., Alacabey İ., Meydan İ., Kul A. R. , Seçkin H.  
International Environmental Sciences Symposium of Van, Van, Turkey, 4 - 07 June 2014, pp.5
- **Analysis of Şabaniye Van Water Tank in Point of Drinking and Domestic Water Quality.**  
Özdek U., Ocak S., Alacabey İ., Meydan İ., Durak H., Seçkin H.  
International Environmental Sciences Symposium of Van, Van, Turkey, 4 - 07 June 2014, pp.5
- **Sodyum bor hidrürden bakır ve demir katalizörü ile hidrojen üretiminin kinetik olarak incelenmesi**  
Durak H.  
5. Ulusal Kataliz Kongresi, Adana, Turkey, 23 - 26 April 2014, pp.5
- **Biyokütleden piroliz yöntemiyle biyoyağ eldesi üzerine katalizör etkisi**  
Durak H., Aysu T., Kul A. R.

5. Ulusal Kataliz Kongresi, Adana, Turkey, 23 - 26 April 2014, pp.5
- **Biyokütleden piroliz yöntemiyle biyoyağ eldesi üzerine katalizör etkisi (The Effect of Catalyst on Produces Bio-oil to Biomass by Pyrolysis)**  
Durak H., Aysu T., Kul A. R.  
5. National Catalysis Conference, Adana, Turkey, 23 - 26 April 2014, pp.1
  - **Potasyum Hidroksit ve Çinko Klorür ile Aktive Edilen Ferula orientalis L. Bitkisi Saplarından Aktif Karbon Eldesi ve Tanımlanması**  
Aysu T., Durak H., Küçük M. M.  
1. ULUSAL KATALİZ YAZ OKULU (3. ANADOLU KATALİZ OKULU), Malatya, Turkey, 24 - 28 August 2013, pp.1
  - **Nanohidroksiapatit Üzerine Tutturulmuş Rutenyum(0) Nanokümlerinin Hazırlanması, Tanımlanması ve Amonyak-Boranın Hidrolizindeki Katalitik Performansının İncelenmesi**  
Durak H., Zahmakıran M.  
1. Ulusal Kataliz Yaz Okulu (3. Anadolu Kataliz Yaz Okulu), Malatya, Turkey, 24 - 28 August 2013, pp.5
  - **Catalytic dehydrocoupling/dehydrogenation of dimethylamine-borane with metal organic framework stabilized Pd nanoparticles**  
Durak H., Zahmakıran M.  
44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.850
  - **Determination Of Optimum Condition For Dissolution Of Tincal In Phosphoric Acid Solutions**  
Durak H., Genel Y., Aysu T.  
IUPAC 2013 , 44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1
  - **Biomass Liquefaction In Supercritical Organic Solvents: Effects Of Various Parameters On Product Yields And Characterization Of Products**  
Aysu T., Durak H., Küçük M. M.  
IUPAC 2013, 44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1
  - **Liquefaction Of Heracleum Persicum By Supercritical Fluid Extraction**  
Aysu T., Durak H., Küçük M. M.  
IUPAC 2013, 44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1
  - **Tinkalin Yüksek Sıcaklıklarda Fosforik Asit Çözeltilerinde Çözünme Kinetiğinin İncelenmesi**  
Durak H., Genel Y.  
26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, pp.39
  - **Uleksitin Hidroklorik Asit Çözeltilerinde Çözünürlüğü**  
Genel Y., Durak H., İnce F., Genel S.  
26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, pp.271
  - **Sodyum Bor Hidrürden Demir Katalizörü Kullanılarak Hidrojen Gazı Elde Edilmesi**  
Durak H., Zahmakıran M.  
26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, pp.183
  - **Doğal ve Aktive Edilmiş Bentonit Kili Üzerine Çinko (Zn) Adsorpsiyonunun İncelenmesi**  
Genel Y., Durak H., Genel S.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.5
  - **Fizikokimya Laboratuvarlarında V-Diyagramı Uygulaması**  
Durak H., Genel Y.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.5
  - **Doğal ve Aktive Edilmiş Bentonit Kili Üzerine Kobalt (Co) Adsorpsiyonunun İncelenmesi**  
Genel Y., Durak H., Genel S.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.5
  - **Van Katı Atık Depolama Alanındaki Toprakların Bazı Ağır Metal İçeriklerinin Tespiti ve Van Gölü Kirliliğine Etkilerinin Araştırılması**  
Kılıçel F., Durak H., Arılık A.  
Van Gölü Hidrolojisi ve Kirliliği Konferansı, Van, Turkey, 21 - 22 August 2008, pp.108-115
  - **Isıl, Sodyum Hidroksit, Çinkoklorür ve Sülfürik Asit ile Aktive Edilen Doğal Sepiolit'in Üzerine Ağır Metal(Krom) Adsorpsiyonu**  
Durak H., Genel S., Genel Y., Özdin K.  
III. Ulusal Sağlık Hizmetleri Meslek Yüksek Okulları Sempozyumu, Van, Turkey, 18 - 22 June 2008, pp.261-270

- **Doğal ve Aktive Edilmiş Kaolinler Üzerine Sulu Çözelti Ortamındaki Kurşun-Kadmiyum İyonlarının Sorpsiyon Kinetik Sabitlerinin Geometrik Yaklaşım ile Belirlenmesi**  
Kul A. R. , Koyuncu H., Durak H., Alacabey İ., Ceylan H.  
21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007, pp.5
- **Doğal ve Aktive Edilmiş Bentonit Üzerine Sulu Çözelti Ortamındaki Mangan İyonlarının Adsorpsiyon Denge Çalışmaları**  
Kul A. R. , Koyuncu H., Özdek U., Durak H., Alacabey İ.  
21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007, pp.5
- **Van Şehir Çöplüğünün Döküldüğü Alandaki Topraklarda Bazı Ağır Metal Düzeylerinin FAAS Metodu ile Tayini**  
Kılıçel F., Durak H., Arılık A.  
XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004, pp.1

## Supported Projects

Oto B., DURAK H., Project Supported by Higher Education Institutions, Bazı Seramik Örneklerinin Gama Radyasyonu Zırlama Özelliklerinin Belirlenmesi, 2019 - 2019

Genel Y., Durak H., Aysu T., Project Supported by Higher Education Institutions, Bıtrak (xanthium strumarium) bitkisinden süperkritik sıvı ekstraksiyonu yöntemiyle biyoyağ eldesi ve elde edilen ürünlerin karakterizasyonu., 2015 - 2016

Genel Y., Durak H., Project Supported by Higher Education Institutions, Tıncalın Yüksek Sıcaklıklarda Fosforik Asit Çözeltilerinde Çözünme Kinetiğinin İncelenmesi ve Optimum Şartların Belirlenmesi, 2010 - 2013

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## Activities in Scientific Journals

Current Alternative Energy, Committee Member, 2019 - Continues

Journal of Energy and Natural Resources, Committee Member, 2018 - Continues

JOURNAL OF MANAGEMENT SCIENCE & ENGINEERING RESEARCH, Committee Member, 2018 - Continues

SCIREA Journal of Energy, Committee Member, 2018 - Continues

Frontiers in Energy Research, Committee Member, 2018 - Continues

Oil & Gas Research, Committee Member, 2015 - Continues

## Memberships / Tasks in Scientific Organizations

Türkiye Kimya Derneği, Member, 2002 - Continues

## Scientific Refereeing

BIORESOURCE TECHNOLOGY, SCI Journal, July 2020

SURFACES AND INTERFACES, SCI Journal, July 2020

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## **Invited Congress and Symposium Activities**

III. International Congress on New Trends in Science, Engineering and Technology, Attendee, Praha, Czech Republic,

2019

4th International Congress on Environmental Research and Technology, Attendee, Athens, Greece, 2018

V. International Multidisciplinary Congress of Eurasia, Attendee, Barcelona, Spain, 2018

IV. International Multidisciplinary Congress of Eurasia, Attendee, Rome, Italy, 2017

2nd International Conference on Advances in Natural and Applied Sciences, Attendee, Antalya, Turkey, 2017

International Conference on Advances in Natural and Applied Sciences, Attendee, Antalya, Turkey, 2016

27. Ulusal kimya kongresi, Attendee, Çanakkale, Turkey, 2015

IUPAC-2015, 45th World Chemistry Congress, Attendee, Pusan, South Korea, 2015

5th Euehems Chemistry Congress, Attendee, İstanbul, Turkey, 2014

5. Ulusal Kataliz Kongresi, Attendee, Adana, Turkey, 2014

1. Ulusal Kataliz Yaz Okulu(3. Anadolu Kataliz Yaz Okulu), Attendee, Malatya, Turkey, 2013

44th World Chemistry Congress, Attendee, İstanbul, Turkey, 2013

26. Ulusal Kimya Kongresi, Attendee, Muğla, Turkey, 2012

24. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey, 2010

III. Ulusal Sağlık Hizmetleri Meslek Yüksek Okulları Sempozyumu, Attendee, Van, Turkey, 2008

21. Ulusal Kimya Kongresi, Attendee, Malatya, Turkey, 2007

## Citations

Total Citations (WOS):254

h-index (WOS):11