

Lect. PhD Salih Genel

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, Turkey 2017 - 2022

Postgraduate, Turkey 2005 - 2008

Undergraduate, Turkey 2001 - 2005

Dissertations

Doctorate, Biyokütleinin piroliz ve hidrotermal yöntemle farklı katalizör sistemleri kullanılarak sıvılaştırılması, elde edilen ürünlerin karakterizasyonu, Van Yüzüncü Yıl University, Özalp Meslek Yüksekokulu, Tıbbi Laboratuvar Teknikerliği Bölümü, 2022

Postgraduate, 1995-2006 yılları arasında ilköğretim 7. sınıflarında okutulan fen bilgisi ders kitaplarındaki kavram yanlışlarına neden olan faktörlerin incelenmesi, Van Yüzüncü Yıl University, Eğitim Fakültesi, Orta Öğretim Fen ve Matematik Alanları Eğitimi Bölümü, 2008

Research Areas

Environmental Technology, Chemical Engineering and Technology, Bioprocess Separation Processes, Chemical Technologies, Energy, Renewable Energy Systems, Alternative Energy Resources, Chemistry, Physical Chemistry, Chemical Kinetics, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Van Yüzüncü Yıl University, Özalp Meslek Yüksekokulu, Tıbbi Laboratuvar Teknikerliği Bölümü, 2009 - Continues

Courses

Biyoenjerji Teknolojileri ve Biyokömür, Postgraduate, 2022 - 2023

Laboratuvar güvenliği, Undergraduate, 2023 - 2024

Biyoyakıt Teknolojisi, Postgraduate, 2022 - 2023

- I. **Hydrothermal liquefaction process of Ammi visnaga and a new approach for recycling of the waste process water: cultivation of algae and fungi**
Durak H., Genel S., Demirer Durak E., Özçimen D., Kocer A. T.
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.5, pp.7149-7165, 2024 (SCI-Expanded)
- II. **Hydrothermal liquefaction of Datura stramonium L.: Influence of temperature and heterogeneous catalysts**
Genel S.
Environmental Progress and Sustainable Energy, vol.43, no.2, 2024 (SCI-Expanded)
- III. **The utilization of novel NaF/Al₂O₃ catalysts in the process of hydrothermal liquefaction of Crambe orientalis: synthesis and characterization**
Genel S., Durak H.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.3748-3759, 2024 (SCI-Expanded)
- IV. **Hydrothermal Liquefaction of Cellulose in the Presence of Sodium Fluoride-Doped Alumina Catalyst**
Durak H., Genel S.
CATALYSIS LETTERS, vol.1, no.1, pp.1-15, 2023 (SCI-Expanded)
- V. **Catalytic effect of metal powder and MCM-41/metal catalysts on the pyrolysis of cellulose**
Genel S., Durak H., Genel Y.
ENVIRONMENTAL PROGRESS AND SUSTAINABLE ENERGY, vol.1, no.1, pp.1-11, 2023 (SCI-Expanded)
- VI. **Comparison of catalytic efficiency of MCM-41/metal and metal powder catalysts in Crambe orientalis pyrolysis**
Genel S., Durak H.
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-11, 2023 (SCI-Expanded)
- VII. **Hydrothermal liquefaction of biomass with molybdenum, aluminum, cobalt metal powder catalysts and evaluation of wastewater by fungus cultivation**
Genel S., Durak H., Durak E., Güneş H., Genel Y.
RENEWABLE ENERGY, vol.203, pp.20-32, 2023 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SCI-Expanded)

Articles Published in Other Journals

- I. **Pyrolysis of Crambe Orientalis Plant in the Presence of Metal Supported MCM-41 Catalyst: The Effect of Catalyst Ratio on Liquid Product Composition**
GENEL S., Durak H.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.3, pp.883-897, 2023 (Peer-Reviewed Journal)

- II. **Liquefaction of Crambe Orientalis Plant in The Presence of NaF/Al₂O₃ Catalyst by Hydrothermal Method, The Effect of Catalyst Ratio on Liquid Product Content**
Genel S., Durak H.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.3, pp.1826-1837, 2023 (Peer-Reviewed Journal)
- III. **Liquefaction of biomass by catalytic hydrothermal liquefaction in the presence of heterogeneous catalyst and characterization of the obtained products**
GENEL S.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.13, no.3, pp.675-687, 2023 (Peer-Reviewed Journal)
- IV. **The role of acidic, alkaline and hydrothermal pretreatment on pyrolysis of wild mustard (Sinapis arvensis) on the properties of bio-oil and bio-char**
Alayont Ş., Balun Kayan D., Durak H., Kulaksız Alayont E., Genel S.
Bioresource Technology Reports, vol.17, pp.1-9, 2022 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **PYROLYSIS OF BIOMASS IN THE PRESENCE OF METAL/METAL SUPPORTED CATALYSTS AND CHARACTERIZATION OF THE OBTAINED PRODUCTS**
Genel S., Durak H.
5. International Mediterranean Scientific Research Congress, Mersin, Turkey, 13 - 14 January 2024, pp.1279
- II. **Liquefaction of Biomass by Hydrothermal Method and Use of Waste Process Water in Algae and Fungi Cultivation**
DURAK H., GENEL S., DEMİRER DURAK E., ÖZÇİMEN D., KOÇER A. T.
4th Bioenergy Studies Symposium, Turkey, 26 May 2022
- III. **Evaluation of Hydrothermal Liquefaction Waste Process Water in the Cultivation of Fungi**
DURAK H., DEMİRER DURAK E., GÜNEŞ H., GENEL S.
4th Bioenergy Studies Symposium, Turkey, 26 May 2022
- IV. **Liquefaction of biomass by hydrothermal liquefaction in the presence of NaF/Al₂O₃ catalyst characterization of obtained products**
Genel S., Durak H.
International World Energy Conference, Kayseri, Turkey, 3 - 04 December 2021, pp.1-5
- V. **Pyrolysis of biomass in the presence of MCM-41/Al catalyst, characterization of obtained products**
Genel S., Durak H.
International World Energy Conference, Kayseri, Turkey, 3 - 04 December 2021, pp.1-5
- VI. **Crambe Orientalis Bitkisinin MCM-41-Fe Katalizörü Varlığında Piroлиз Yöntemiyle Sıvılaştırılması**
Genel S., Durak H.
33. Ulusal Kimya Kongresi, Tekirdağ, Turkey, 7 - 09 October 2021, pp.297
- VII. **Biyokütlenin MCM-41 Katalizörü Varlığında Piroлиз, Elde Edilen Ürünlerin Karakterizasyonu**
Genel S., Durak H.
33. Ulusal Kimya Kongresi, Tekirdağ, Turkey, 7 - 09 October 2021, pp.104
- VIII. **Activated Carbon Production and Dyestuff Adsorption From Elaeagnus Seed**
Genel İ., Genel Y., Genel S.
13. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 11 - 12 March 2021, pp.49
- IX. **Hidrotermal Ön İşlem Uygulaması ile Biyokütleden Aktif Karbon Eldesi**
Genel S., Durak H., Meydan İ.
32. Ulusal Kimya Kongresi, İstanbul, Turkey, 17 - 19 September 2020, pp.135-136
- X. **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
- XI. **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

XII. 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

XIII. Investigation of liquefaction products of prosopis farcta by different analysis methods

ÇOLAK U., DURAK H., Genel S.

V. International Multidisciplinary Congress of Eurasia, Barselona, Spain, 24 - 26 July 2018, pp.297

XIV. Characterization of products obtained from hydrothermal liquefaction of biomass

DURAK H., Genel S.

V. International Multidisciplinary Congress of Eurasia, Barselona, Spain, 24 - 26 July 2018, pp.296

XV. 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

XVI. 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

XVII. 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

XVIII. 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

Supported Projects

Genel Y., DURAK H., Genel S., Project Supported by Higher Education Institutions, Ammi visnaga (Hıltan) bitkisinin farklı katalizör sistemleri ile sıvılaştırılması elde edilen ürünlerin karakterizasyonu, 2021 - Continues

Durak H., Genel S., Project Supported by Higher Education Institutions, Selüloz ve ligninin hidrotermal ve piroliz yöntemiyle sıvılaştırılması elde edilen ürünlerin karakterizasyonu, 2020 - 2023

Durak H., Genel S., Project Supported by Higher Education Institutions, Biyokütlenin piroliz ve hidrotermal yöntemle farklı katalizör sistemleri kullanılarak sıvılaştırılması elde edilen ürünlerin karakterizasyonu, 2020 - 2022

Meydan İ., DURAK H., Genel S., Project Supported by Higher Education Institutions, Bazı İlaç Etken Maddelerinin Aktif Karbon Adsorpsiyon Kinetiğinin İncelenmesi, 2019 - 2021

Durak H., Meydan İ., Genel S., Project Supported by Higher Education Institutions, Hidrotermal ön işlem uygulaması ile biyokütleden aktif karbon eldesi, 2019 - 2020

Metrics

Publication: 33

Citation (WoS): 142

Citation (Scopus): 197

H-Index (WoS): 4

H-Index (Scopus): 6

Non Academic Experience

Milli Eğitim Bakanlığı