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Education

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 2002 - 2006

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Yl) (Tezli), Turkey 1999 - 2002

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1995 - 1999

Dissertations

Doctorate, C3 enerji bitkisi olan enginar (*Cynara cardunculus* L.) saplarının pirolizi ve biyoyakıt üretiminin incelenmesi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), 2006

Postgraduate, *Miscanthus siensis giganteus* enerji bitkisinin sabit yatak reaktöründe pirolizi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Yl) (Tezli), 2002

Academic and Administrative Experience

Bilecik Seyh Edebali University, 2019 - Continues

Courses

Doctorate

İleri Kimya Mühendisliği Termodinamiği, Doctorate, 2020 - 2021, 2019 - 2020

Kimya Mühendisliğinde DeneySEL Yöntemler ve Enstrümantasyon, Doctorate, 2017 - 2018

Kimya Mühendisliğinde Vektör ve Tensör Uygulamaları, Doctorate, 2016 - 2017

Postgraduate

Uzmanlık Alan, Postgraduate, 2020 - 2021

Tez Çalışması, Postgraduate, 2020 - 2021

Mühendislik Verilerinin İstatistiksel Değerlendirilmesi, Postgraduate, 2019 - 2020

Yanma, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Kimya Mühendisliğinde Matematiksel Yöntemler, Postgraduate, 2018 - 2019

Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019, 2017 - 2018

Doğrusal Optimizasyon, Postgraduate, 2016 - 2017

Undergraduate

Bitirme Ödevi, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Kimya Mühendisliği Laboratuvarı I, Undergraduate, 2020 - 2021, 2018 - 2019

Proses Kontrol, Undergraduate, 2020 - 2021, 2019 - 2020

Proses Optimizasyonu, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2018 - 2019

Lisans Araştırma Projesi, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Kimya Mühendisliğinde Bilgisayar Uygulamaları, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016

Ayrırma İşlemleri, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Isı Transferi, Undergraduate, 2017 - 2018

Genel Kimya I, Undergraduate, 2016 - 2017, 2015 - 2016

Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2016 - 2017, 2014 - 2015

Kimya Mühendisliği Laboratuvarı I, Undergraduate, 2016 - 2017

Yeni ve Yenilenebilir Enerji Kaynakları, Undergraduate, 2016 - 2017

Kimya Mühendisliğinde Bilgisayar Uygulamaları I, Undergraduate, 2016 - 2017

Genel Kimya Ve Laboratuvarı II, Undergraduate, 2015 - 2016

Kütle Aktarımı, Undergraduate, 2015 - 2016

Kimya ve Proses Mühendisliği Temel Prensipleri, Undergraduate, 2015 - 2016

Proses Enstrümantasyonu , Undergraduate, 2015 - 2016, 2014 - 2015

Genel Kimya ve Laboratuvarı, Undergraduate, 2014 - 2015

Supervised Theses

ŞİMŞEK Y. E., Biyokütle kullanılarak metal iyon biyosorpsiyonu, Postgraduate, M.KALE(Student), 2018

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Effect of Micromonospora sp. KSC08 on nitrogen conservation throughout composting**
Kumas A., Ertekin S. G., GURBANOV R., ŞİMŞEK Y. E., Kocak F., DEĞİRMENCİ L.
Biomass Conversion and Biorefinery, vol.13, no.3, pp.2375-2390, 2023 (SCI-Expanded)
- II. **Sulfurized Co-Mo Alloy Thin Films as Efficient Electrocatalysts for Hydrogen Evolution Reaction**
KURU C., ALAF M., ŞİMŞEK Y. E., Tocoglu U.
Catalysis Letters, vol.152, no.2, pp.315-323, 2022 (SCI-Expanded)
- III. **Ni-Mo-S Ternary Chalcogenide Thin Film for Enhanced Hydrogen Evolution Reaction**
KURU C., ALAF M., ŞİMŞEK Y. E.
Catalysis Letters, vol.151, no.8, pp.2228-2236, 2021 (SCI-Expanded)
- IV. **Determination of optimal conditions for production of highly porous carbon by chemical activation method**
ŞİMŞEK Y. E.
Acta Physica Polonica A, vol.135, no.5, pp.1036-1038, 2019 (SCI-Expanded)
- V. **Microwave assisted hydroxyapatite coating of Ti6Al4V alloys and investigation of adhesion strength**
AVCI Ş., ŞİMŞEK Y. E.
Acta Physica Polonica A, vol.135, no.5, pp.972-973, 2019 (SCI-Expanded)
- VI. **Synthesis and characterization of hydroxyapatite produced by microwave assisted precipitation technique**
ŞİMŞEK Y. E., AVCI Ş.
Acta Physica Polonica A, vol.135, no.5, pp.974-976, 2019 (SCI-Expanded)

- VII. **Effect of Atmosphere and Temperature Treatment on Leoanardite for Increasing Humic Acid Yield**
ŞİMŞEK Y. E., DEĞİRMENCİ L.
Journal of the Geological Society of India, vol.92, no.2, pp.209-214, 2018 (SCI-Expanded)
- VIII. **Activated carbon from paulownia wood: Yields of chemical activation stages**
YORGUN S., YILDIZ D., ŞİMŞEK Y. E.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.38, no.14, pp.2035-2042, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Thermal Decomposition Kinetics of the Stalks of CynaraCardunculusL. under Non-Isothermal Conditions**
ŞİMŞEK Y. E., YORGUN S.
BSEU Engineering Research and Technology (BSEUJERT), vol.2, no.2, pp.7-17, 2021 (Peer-Reviewed Journal)
- II. **Combined Utilization of \$KMNO_4\$ Modified Starch Particles with Glycerol as De-Icer**
EMRE D., ŞİMŞEK Y. E., DEĞİRMENCİ L.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.17, pp.190-197, 2019 (Peer-Reviewed Journal)
- III. **Sulu Çözeltiden Bakır (II) Adsorpsiyon Sürecinin Optimizasyonunda Yüzey Yanıt Metodolojisinin Uygulanması**
ŞİMŞEK Y. E.
ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, vol.6, no.3, pp.182-191, 2018 (Peer-Reviewed Journal)
- IV. **Determination of the Effects of Aqueous Ammonia Pretreatment on the Structure of Solid Cake via Statistical Analyses and Characterization Methods**
AYHAN İ. E., YILMAZ B., KARAMAN O., ŞİMŞEK Y. E., DEĞİRMENCİ L.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.19, no.3, pp.704-720, 2018 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Algal Biyokütlenin Atık Su Arıtımı, Biyoyakıt, Aktif Karbon ve Biyoürünlerde Kullanılması**
ŞİMŞEK Y. E.
13. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 11 - 12 March 2022, vol.1, pp.156-169, (Full Text)
- II. **Ultrasonic Modification Effect of Activated Carbons on the Removal of Arsenic in Wasterwaters**
AYDIN H., ŞİMŞEK Y. E.
1th INTERNATIONAL PALANDOKEN SCIENTIFIC RESEARCH CONGRESS, Erzurum, Turkey, 24 - 25 November 2020, (Full Text)
- III. **Removal of Congo Red dye form aqueous media by Macroalga Vallisneria Spiralis: Kinetics and isotherms studies**
Şimşek Y. E., Birinci M.
International Symposium on Academic Studies in Science, Engineering and Architecture Sciences, Ankara, Turkey, 15 - 17 November 2019, vol.1, pp.111, (Summary Text)
- IV. **Modeling and optimization of experimental parameters for the removal of heavy metal and production of porous adsorbents by RSM and ANN techniques**
ŞİMŞEK Y. E.
9th International Advances in Applied Physics Materials Science Congress Exhibition, Muğla, Turkey, 22 - 28 October 2019, (Summary Text)
- V. **Graphene-like highly porous activated carbon derived from wild plant for carbon dioxide capture**
ŞİMŞEK Y. E.

3rd International Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 11 - 13 October 2019, (Summary Text)

- VI. **Application of Artificial Neural Network, Response Surface Methodology and Support Vector Regression Approaches for the Prediction of Heavy Metal Removal Capacities**

ŞİMŞEK Y. E.

IX. International Symposium On Ecology And Environmental Problems, Antalya, Turkey, 1 - 03 October 2019, (Summary Text)

- VII. **Synthesis and characterization of hydroxyapatite produced by microwave-assisted precipitation technique**

ŞİMŞEK Y. E., AVCI Ş.

APMAS2018 8th International Advances in Applied Physics and Materials Science Congress Exhibition, Muğla, Turkey, 24 - 30 April 2018, (Summary Text)

- VIII. **An Investigation into the potential of Diospyros kaki l. leaf in adsorption of heavy metal (Ni) from industrial waste water**

ŞİMŞEK Y. E., Kale M.

3 rd International Porous Powder Materials, Aydın, Turkey, 12 - 15 September 2017, (Summary Text)

- IX. **Hierarachial pore structure of activated carbon from bovine bone by microwave irradiation**

ŞİMŞEK Y. E., Barak S.

3 rd International Porous Powder Materials, Aydın, Turkey, 12 May - 15 September 2017, (Summary Text)

- X. **Effect of pretreatment methods on physicochemical and morphological properties of biochars obtained from agricultural waste**

ŞİMŞEK Y. E.

3rd International Conference Computational and Experimental Science and Engineering (ICCESSEN), Antalya, Turkey, 19 - 24 October 2016, (Summary Text)

- XI. **Miscanthus x Giganteus Enerji Bitkisinin Pirolizi**

ŞİMŞEK Y. E., YORGUN S.

IV. Ulusal Temiz Enerji Sempozyumu, 2002, İstanbul, Türkiye, Turkey, 16 - 18 October 2002, vol.2, pp.889-897, (Full Text)

- XII. **Effect of Activated Carbon Parameters on the Surface Properties of Wheat Straw Residue**

ŞİMŞEK Y. E.

1st International Black Sea Congress on Environmental, 31 August - 04 September 2016, (Summary Text)

- XIII. **The Pyrolysis of a C3 Energy Crop in a Fixed Bed Reactor**

ŞİMŞEK Y. E., YORGUN S.

X.th Ceramic Congress 2015, Afyonkarahisar, Turkey, 26 - 28 November 2015, (Summary Text)

- XIV. **Mineral Madde Gideriminin Biyokütle Piroliz Ürün Verimlerine Etkisi**

ŞİMŞEK Y. E., YORGUN S.

8. Ulusal Kimya Mühendisliği Kongresi, İnönü Üniversitesi, 2008, Malatya, Türkiye, Turkey, 26 - 29 August 2008, vol.1, pp.221-228, (Full Text)