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International Researcher IDs

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Publons / Web Of Science ResearcherID: ADX-7313-2022

ScopusID: 55600844200

Yoksis Researcher ID: 46171

Education Information

Doctorate, Selcuk University, Institute Of Science, Turkey 2014 - 2018

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2010 - 2012

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey 2006 - 2010

Dissertations

Doctorate, Borik asit ve boraks pentahidrat bileşiklerinin kristalizasyon ile üretim şartlarının CMSMPR sisteminde optimizasyonu ve kekleşmenin incelenmesi, Selcuk University, Institute Of Science, 2018

Postgraduate, Süperkritik su ortamında zeytin karasuyunun PT katalizörü kullanılarak hidrotermal arıtımı ve gazlaştırılması, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2012

Research Areas

Chemical Engineering and Technology, Environmental Chemistry and Technology, Chemical Reaction Engineering, Process Control, Process Design, Separation Operations

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2022 - Continues

Associate Professor, Siirt University, Faculty Of Engineering, Chemical Engineering, 2021 - 2022

Assistant Professor, Siirt University, Faculty Of Engineering, Chemical Engineering, 2018 - 2021

Research Assistant, Siirt University, Faculty Of Engineering, Chemical Engineering, 2011 - 2018

Academic and Administrative Experience

İTÜ Merkezi Laboratuvar - İTÜMER Koordinasyon Kurulu Üyesi, Istanbul Technical University, 2022 - Continues
Rector's Advisor, Istanbul Technical University, 2022 - Continues
Manager of Research and Application Center, Siirt University, Research Center For Cooperation Among Public, Universities And Industry, 2021 - 2022
Head of Department, Siirt University, Faculty Of Engineering, Chemical Engineering, 2021 - 2022
Deputy Head of Department, Siirt University, Faculty Of Engineering, Chemical Engineering, 2019 - 2022

Courses

Crystallization, Undergraduate, 2022 - 2023
Chem. Eng. Design II, Undergraduate, 2022 - 2023
Mass Transfer, Undergraduate, 2022 - 2023
Kimya Mühendisliğinde Bilgisayar Destekli Tasarım , Undergraduate, 2022 - 2023

Advising Theses

Kutluay S., Perlit destekli manyetik nanoparçacıklar ile çok bileşenli bir sistemde uçucu organik bileşiklerin dinamik rekabetçi adsorpsiyon davranışının değerlendirilmesi, Postgraduate, R.AÇİN(Student), 2022
Kutluay S., RSM optimizasyonu ile çörekotu (*Nigella Sativa L.*) atık biyokütlesi-esaslı üretilen aktif karbon kullanılarak uçucu organik bileşiklerin giderilmesi ve fotovoltaiik uygulamalarının incelenmesi, Postgraduate, E.BATUR(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Superior incident photon-to-current conversion efficiency of Mo-doped activated carbon supported CdS-sensitized solar cells**
Batur E., Kutluay S., Baytar O., Şahin Ö., Horoz S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.8, pp.19766-19775, 2023 (SCI-Expanded)
- II. **High solar cell efficiency of lanthanum-alloyed activated carbon-supported cadmium sulfide as a promising semiconductor nanomaterial**
Batur E., Baytar O., Horoz S., Kutluay S., Şahin Ö.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.59, no.1, pp.9-18, 2023 (SCI-Expanded)
- III. **Green synthesis of copper oxide and manganese oxide nanoparticles from watermelon seed shell extract for enhanced photocatalytic reduction of methylene blue**
Ekinci A., Kutluay S., Şahin Ö., Baytar O.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, 2022 (SCI-Expanded)
- IV. **Enhancement in incident photon-to-current conversion efficiency of manganese-decorated activated carbon-supported cadmium sulfide nanocomposite**
Batur E., Baytar O., Horoz S., Şahin Ö., Kutluay S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.20, pp.16286-16296, 2022 (SCI-Expanded)
- V. **Dynamic adsorption behavior of benzene, toluene, and xylene VOCs in single- and multi-component systems by activated carbon derived from defatted black cumin (*Nigella sativa L.*) biowaste**
Batur E., Kutluay S.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.10, no.3, 2022 (SCI-Expanded)
- VI. **Comparative and competitive adsorption of gaseous toluene, ethylbenzene, and xylene onto natural cellulose-modified Fe₃O₄ nanoparticles**
Ece M. S., Kutluay S.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.10, no.2, 2022 (SCI-Expanded)

- VII. **Fabrication and characterization of Fe₃O₄/perlite, Fe₃O₄/perlite@SiO₂, and Fe₃O₄/perlite@SiO₂@sulfanilamide magnetic nanomaterials**
Kutluay S., Sahin Ö., Ece M. S.
Applied Physics A: Materials Science and Processing, vol.128, no.3, 2022 (SCI-Expanded)
- VIII. **Preparation and characterization of activated carbon from hydrochar by hydrothermal carbonization of chickpea stem: an application in methylene blue removal by RSM optimization**
Genli N., Kutluay S., Baytar O., Sahin Ö.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.24, no.1, pp.88-100, 2022 (SCI-Expanded)
- IX. **Highly improved solar cell efficiency of Mn-doped amine groups-functionalized magnetic Fe₃O₄@SiO₂ nanomaterial**
Kutluay S., Horoz S., Sahin Ö., Ekinci A., Ece M. S.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.14, pp.20176-20185, 2021 (SCI-Expanded)
- X. **Facile synthesis and comprehensive characterization of Ni-decorated amine groups-immobilized Fe₃O₄@SiO₂ magnetic nanoparticles having enhanced solar cell efficiency**
Ece M. S., Ekinci A., Kutluay S., Sahin Ö., Horoz S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.13, pp.18192-18204, 2021 (SCI-Expanded)
- XI. **Excellent adsorptive performance of novel magnetic nano-adsorbent functionalized with 8-hydroxyquinoline-5-sulfonic acid for the removal of volatile organic compounds (BTX) vapors**
Kutluay S.
FUEL, vol.287, 2021 (SCI-Expanded)
- XII. **Fabrication and characterization of 3,4-diaminobenzophenone-functionalized magnetic nanoadsorbent with enhanced VOC adsorption and desorption capacity**
Sahin Ö., Kutluay S., Horoz S., Ece M. S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.5, pp.5231-5253, 2021 (SCI-Expanded)
- XIII. **A comprehensive new study on the removal of Pb (II) from aqueous solution by sirnak coal-derived char**
Batur E., Baytar O., Kutluay S., Horoz S., Sahin Ö.
ENVIRONMENTAL TECHNOLOGY, vol.42, no.3, pp.505-520, 2021 (SCI-Expanded)
- XIV. **Silica gel based new adsorbent having enhanced VOC dynamic adsorption/desorption performance**
Kutluay S., Temel F.
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.609, 2021 (SCI-Expanded)
- XV. **Development of Novel Fe₃O₄/AC@SiO₂@1,4-DAAQ Magnetic Nanoparticles with Outstanding VOC Removal Capacity: Characterization, Optimization, Reusability, Kinetics, and Equilibrium Studies**
Ece M. S., Kutluay S., Sahin Ö., Horoz S.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.59, no.48, pp.21106-21123, 2020 (SCI-Expanded)
- XVI. **Investigation of high-performance adsorption for benzene and toluene vapors by calix[4]arene based organosilica (CBOS)**
Temel F., Kutluay S.
NEW JOURNAL OF CHEMISTRY, vol.44, no.30, pp.12949-12961, 2020 (SCI-Expanded)
- XVII. **High-performance gas-phase adsorption of benzene and toluene on activated carbon: response surface optimization, reusability, equilibrium, kinetic, and competitive adsorption studies**
Baytar O., Sahin Ö., Horoz S., Kutluay S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.21, pp.26191-26210, 2020 (SCI-Expanded)
- XVIII. **Utilization of In Situ FBRM and PVM Probes to Analyze the Influences of Monopropylene Glycol and Oleic Acid as Novel Additives on the Properties of Boric Acid Crystals**
Kutluay S., Ceyhan A. A., Sahin Ö., Izgi M. S.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.59, no.19, pp.9198-9206, 2020 (SCI-Expanded)
- XIX. **Equilibrium, kinetic and thermodynamic studies for dynamic adsorption of benzene in gas phase onto activated carbon produced from elaeagnus angustifolia seeds**
Kutluay S., Baytar O., Sahin Ö.

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.7, no.2, 2019 (SCI-Expanded)

- XX. **Design and optimization of production parameters for boric acid crystals with the crystallization process in an MSMR crystallizer using FBRM (R) and PVM (R) technologies**

Kutluay S., Sahin Ö., Ceyhan A. A., Izgi M. S.

JOURNAL OF CRYSTAL GROWTH, vol.467, pp.172-180, 2017 (SCI-Expanded)

- XXI. **Cold plasma and microwave radiation applications for surface modification on the pistachio husk-based adsorbent and its effects on the adsorption of rhodamine B**

Saka C., Sahin Ö., Kutluay S.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.3, pp.339-346, 2016 (SCI-Expanded)

- XXII. **Cold plasma and microwave radiation applications on almond shell surface and its effects on the adsorption of Eriochrome Black T**

Sahin Ö., Saka C., Kutluay S.

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.19, no.5, pp.1617-1623, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Synthesis and Characterization of Activated Carbon from Waste Biomass (Tobacco Stalk) by Microwave Assisted Impregnation Method**

YILDIZ H., GÜLŞEN H., ŞAHİN Ö., BAYTAR O., KUTLUAY S.

Harran University Journal of Engineering, vol.7, no.1, pp.1-14, 2022 (Peer-Reviewed Journal)

- II. **Derik Halhalı Zeytin Çekirdeğinden Çevre Dostu Selülozik Manyetik Nano-Adsorbent Üretimi ve Benzen Gideriminde Kullanılması**

KUTLUAY S., ECE M. Ş., ŞAHİN Ö., KAHRAMAN Z., ÖNAL F., ATKU F.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.4, pp.1535-1550, 2021 (Peer-Reviewed Journal)

- III. **Silica-coated magnetic Fe₃O₄ nanoparticles as efficient nano-adsorbents for the improvement of the vapor-phase adsorption of benzene**

Ece M. Ş., Kutluay S., Şahin Ö.

International Journal of Chemistry and Technology (IJCT), vol.5, no.1, pp.33-41, 2021 (Peer-Reviewed Journal)

- IV. **Synthesis of magnetic Fe₃O₄/AC nanoparticles and its application for the removal of gas-phase toluene by adsorption process**

Kutluay S., Ece M. Ş., Şahin Ö.

International Journal of Chemistry and Technology (IJCT), vol.4, no.2, pp.146-155, 2020 (Peer-Reviewed Journal)

- V. **Borik Asit ve Boraks Pentahidrat Kristalleri için Kekleşmenin İncelenmesi**

KUTLUAY S., İZGİ M. S., ŞAHİN Ö., CEYHAN A. A.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.3, pp.985-996, 2020 (Peer-Reviewed Journal)

- VI. **OPTIMIZATION OF PROCESS CONDITIONS FOR ADSORPTION OF METHYLENE BLUE ON FORMALDEHYDE-MODIFIED PEANUT SHELLS USING BOX-BEHNKEN EXPERIMENTAL DESIGN AND RESPONSE SURFACE METHODOLOGY**

KUTLUAY S., BAYTAR O., ŞAHİN Ö., ARRAN A.

European Journal of Technique, vol.10, no.1, pp.131-142, 2020 (Peer-Reviewed Journal)

- VII. **Benzen Uçucu Organik Bileşiğinin Badem Kabuğundan Üretilen Char Üzerine Gaz Fazı Adsorpsiyonu: Kinetik, Denge ve Termodinamik**

KUTLUAY S.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.4, pp.1432-1445, 2019 (Peer-Reviewed Journal)

- VIII. **Adsorption kinetics, equilibrium and thermodynamics of gas-phase toluene onto char produced from almond shells**

KUTLUAY S., BAYTAR O., ŞAHİN Ö.

Research on Engineering Structures and Materials, pp.279-298, 2019 (Scopus)

- IX. **Simultaneous Treatment and Catalytic Gasification of Olive Mill Wastewater under Supercritical**

Conditions

KIPÇAK E., KUTLUAY S., AKGÜN M.

International Scholarly and Scientific Research & Innovation, vol.6, no.11, pp.1075-1080, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **MANYETİK Fe₃O₄/PERLİT@SiO₂ NANOADSORBENTİ VARLIĞINDA TOLUENİN GAZ ADSORPSİYON PROSESİNİN DENEYSEL TASARIMI**
ECE M. Ş., KUTLUAY S., ŞAHİN Ö.
in: KİMYA ARAŞTIRMALARI-1, , Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, pp.31-41, 2020
- II. **SİLİKA-KAPLI MANYETİT/AKTİF KARBON MANYETİK NANOPARÇACIKLAR (MNP) KULLANILARAK TOLUENİN GAZ ADSORPSİYON PROSESİNİN OPTİMİZASYONU**
ECE M. Ş., KUTLUAY S., ŞAHİN Ö.
in: NANOMALZEME SENTEZİ VE GÜNCEL KULLANIM ALANLARI, , Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, pp.31-45, 2020
- III. **PERLİT DESTEKLİ Fe₃O₄ NANOPARTİKÜLLERİN GAZ-FAZINDAKİ BENZENİN UZAKLAŞTIRILMASINDA KULLANIMININ İNCELENMESİ**
ECE M. Ş., KUTLUAY S.
in: KİMYA ARAŞTIRMALARI-1, , Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, pp.16-30, 2020
- IV. **AKTİF KARBON İLE İŞLEVSELLEŞTİRİLMİŞ MANYETİT MANYETİK NANOPARÇACIKLARIN SENTEZLENMESİ VE BENZEN BUHARININ GİDERİMİ İÇİN UYGULANMASI**
KUTLUAY S., ECE M. Ş., ŞAHİN Ö.
in: NANOMALZEME SENTEZİ VE GÜNCEL KULLANIM ALANLARI, , Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, pp.71-86, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Potasyum Tetraborat Tetrahidrat Kristallerinin Partikül Boyut Dağılımı ve Habitine Etki Eden Parametrelerin MSMPR Tipi Kristalizörde İncelenmesi**
Biberoğlu R., Uslu K., Erdemir Guran S., Öksüz E., Şahin Ö., Kutluay S.
Uluslararası Bor Sempozyumu (BORON2022), İstanbul, Turkey, 5 - 07 October 2022
- II. **TOLUEN UÇUCU ORGANİK BİLEŞİĞİNİN ŞIRNAK KÖMÜRÜNDEN ÜRETİLEN CHAR ÜZERİNE ADSORPSİYONU İÇİN PROSES KOŞULLARININ OPTİMİZASYONU**
BATUR E., KUTLUAY S.
3. ULUSLARARASI GAP MATEMATİK-MÜHENDİSLİK-FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Turkey, 29 November - 01 December 2019
- III. **INVESTIGATION OF MALACHITE GREEN ADSORPTION WITH RESPONSE SURFACE METHOD**
KUTLUAY S., ŞAHİN Ö., BAYTAR O.
3rd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Macedonia, 11 - 15 September 2019
- IV. **CHAR ADSORBENTİ KULLANILARAK BENZENİN GAZ ADSORPSİYON PROSESİNİN OPTİMİZASYONU ÜZERİNE YANIT YÜZEY METODU İLE BİR MODELLEME ÇALIŞMASI**
BATUR E., KUTLUAY S.
3. ULUSLARARASI GAP MATEMATİK-MÜHENDİSLİK-FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Turkey, 29 November - 01 December 2019
- V. **BOX-BEHNKEN RESPONSE SURFACE METHODOLOGY FOR OPTIMIZATION OF PROCESS PARAMETERS FOR GAS ADSORPTION OF TOLUENE ONTO Fe₃O₄ NANO-ADSORBENT**
KUTLUAY S., ŞAHİN Ö., BAYTAR O.

3rd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Macedonia, 11 - 15 September 2019

VI. **THE ADSORPTION OF METHYLENE BLUE BY RESPONSE SURFACE METHOD**

KUTLUAY S., ŞAHİN Ö., BAYTAR O.

3rd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Macedonia, 11 - 15 September 2019

VII. **APPLICATION OF RESPONSE SURFACE METHODOLOGY FOR MODELING OF GAS-PHASE ADSORPTION PROCESS OF BENZENE**

KUTLUAY S., ŞAHİN Ö., BAYTAR O.

3rd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Macedonia, 10 - 15 September 2019

VIII. **AN OPTIMIZATION STUDY ON GAS ADSORPTION APPLICATION OF TOLUENE BY USING FORMALDEHYDE-TREATED PISTACHIO SHELLS**

KUTLUAY S., ŞAHİN Ö., BAYTAR O.

3rd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Macedonia, 11 - 15 September 2019

IX. **p-ter-Bütikaliks[4]arenin Gaz Fazındaki Benzen Adsorpsiyon Kapasitesinin İncelenmesi**

TEMEL F., KUTLUAY S., BAYTAR O., TABAKCI M., ŞAHİN Ö.

International Natural and Engineering Sciences Congress (IV. INSAC), Turkey, 11 - 13 October 2019

X. **Toluenin p-ter-Bütikaliks[4]aren Üzerine Adsorpsiyonunda Merkezi Kompozit Tasarımın Uygulanması**

KUTLUAY S., TEMEL F., BAYTAR O., ŞAHİN Ö., TABAKCI M.

International Natural and Engineering Sciences Congress (IV. INSAC), Konya, Turkey, 11 - 13 October 2019

XI. **MANYETİK Fe₃O₄@SiO₂ NANO-ADSORBENTİN TOLUENİN GAZ-FAZI ADSORPSİYONU İÇİN KULLANIMI**

ECE M. Ş., KUTLUAY S., ŞAHİN Ö.

2. ULUSLARARASI MARDİN ARTUKLU BİLİMSEL ARAŞTIRMALAR KONGRESİ, Turkey, 23 - 25 August 2019

XII. **BENZENİN GAZ-FAZI ADSORPSİYONU İÇİN YENİ BİR ADSORBENT OLARAK Fe₃O₄ NANOPARÇACIKLARIN SENTEZLENMESİ**

ECE M. Ş., ŞAHİN Ö., KUTLUAY S.

2. ULUSLARARASI MARDİN ARTUKLU BİLİMSEL ARAŞTIRMALAR KONGRESİ, Turkey, 23 - 25 August 2019

XIII. **Box-Behnken Deneysel Tasarımı ve Yanıt Yüzeyi Metodu (RSM) Kullanılarak Metilen Mavisinin Formaldehit ile Modifiye Edilmiş Fıstık Kabukları Üzerine Adsorpsiyonu için Proses Koşullarının Optimizasyonu**

KUTLUAY S., BAYTAR O., ŞAHİN Ö., ARRAN A.

Uluslararası Bilim ve Mühendislik Sempozyumu'19, Turkey, 20 - 22 June 2019

XIV. **Malahit Yeşilinin Modifiye Edilmiş Fıstık Kabuğu kullanılarak Adsorpsiyonun Yanıt Yüzey Yöntemi ile İncelenmesi**

BAYTAR O., KUTLUAY S., ŞAHİN Ö., ARRAN A.

Uluslararası Bilim ve Mühendislik Sempozyumu'19, Turkey, 20 - 22 June 2019

XV. **Investigation of Adsorption Kinetics, Equilibrium and Thermodynamics of Toluene Vapor onto Formaldehyde-Treated Walnut Shells**

BAYTAR O., ŞAHİN Ö., KUTLUAY S.

2. INTERNATIONAL CONFERENCE ON APPLICATION IN CHEMISTRY AND CHEMICAL ENGINEERING (ICACCHE), Belgrade, Serbia, 10 - 14 October 2018

XVI. **Adsorption of Gas-Phase Benzene onto Formaldehyde-Treated Walnut shells: Kinetics, Equilibrium and Thermodynamics**

KUTLUAY S.

2nd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Serbia, 10 - 14 October 2018

XVII. **CaSO₄·2H₂O ve MgSO₄ Safsızlıklarının Borik Asitin Endüstriyel Kristalizasyon Prosesine Etkileri**

KUTLUAY S., ŞAHİN Ö., CEYHAN A. A.

- 1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM (1st IETS), Turkey, 3 - 05 May 2018
- XVIII. **Investigation of borax pentahydrate crystallization in the CMSMPR system-the effects of CaSO₄·2H₂O and MgSO₄ impurities**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A.
International Engineering and Technology Symposium (IETS'18), 3 - 05 May 2018
- XIX. **Effects of CaSO₄·2H₂O and MgSO₄ impurities on industrial crystallization process of boric acid**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A.
International Engineering and Technology Symposium (IETS'18), 3 - 05 May 2018
- XX. **CMSMPR Sisteminde Boraks Pentahidrat Kristalizasyonunun İncelenmesi - CaSO₄·2H₂O ve MgSO₄ Safsızlıklarının Etkileri**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM (1st IETS), Turkey, 3 - 05 May 2018
- XXI. **Evolution of Boric Acid Crystal Size Distribution and Shape in a CMSMPR Crystallizer-the Effect of Residence Time, Stirring Speed, Feed Flow Rate and Amount of Supersaturation**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A., İZGİ M. S.
International Conference on Applications in Chemistry and Chemical Engineering, 11 - 15 October 2017
- XXII. **Determination of Borax Pentahydrate Crystal Size Distribution and Shape in a CMSMPR Crystallizer-the Effect of Supersaturation, Feed Flow Rate and Stirring Speed with Time**
KUTLUAY S., CEYHAN A. A., DEMİR H., ŞAHİN Ö.
The International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), Bosnia And Herzegovina, 11 - 15 October 2017
- XXIII. **The optimization of production parameters for borax pentahydrate crystals with the crystallization process in a modified continuous cooling MSMPR crystallizer using FBRM® and PVM® probes**
KUTLUAY S., ŞAHİN Ö., CEYHAN A. A., İZGİ M. S.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- XXIV. **Ni-W-B KATALİZÖRÜ VARLIĞINDA SODYUM BORHİDRÜRÜN HİDROLİZİNDEN HİDROJEN ÜRETİMİ**
KUTLUAY S., ŞAHİN Ö., BAYTAR O.
9. Ulusal Temiz Enerji Sempozyumu, Turkey, 25 - 28 December 2013
- XXV. **Simultaneous Treatment and Catalytic Gasification of Olive Mill Wastewater under Supercritical Conditions**
KIPÇAK E., KUTLUAY S., AKGÜN M.
International Conference on Chemical Engineering, Paris, France, 28 - 29 November 2012
- XXVI. **Süperkritik Su Ortamında Zeytin Karasuyunun Pt Katalizörü Kullanılarak Hidrotermal Arıtımı ve Gazlaştırılması**
KUTLUAY S., AYNACI F., KIPÇAK E., AKGÜN M.
Onuncu Ulusal Kimya Mühendisliği Kongresi (UKMK-10), İstanbul, Turkey, 3 - 06 September 2012
- XXVII. **Süperkritik Su Ortamında 2-Propanolün Katalitik Gazlaştırılması**
AYNACI F., KUTLUAY S., KIPÇAK E., AKGÜN M.
Onuncu Ulusal Kimya Mühendisliği Kongresi (UKMK-10), İstanbul, Turkey, 3 - 06 September 2012

Supported Projects

Kutluay S., Şahin Ö., Project Supported by Higher Education Institutions, Grafen/metal oksit nanokompozitlerin USP yöntemi ile üretimi ve CO₂ adsorpsiyonu için uygulanması, 2022 - 2024

Şahin Ö., Kutluay S., Project Supported by Higher Education Institutions, Grafit Karbon Nitrür ve SilikaJel Destek Malzemelerine Metal Katalizörlerin Yüklenmesi ve Sodyum Borhidrürün Hidrolizinde Kullanımı (Proje No: 43530), 2022 - 2023

Şahin Ö., Kutluay S., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Potasyum Tetraborat Tetrahidratın ve Ultrasaf Borik Asitin Kristalizasyonu Üretiminde Partikül Boyutunun Kontrolü/Kekleşme Sorununun Giderilmesi (TENMAK-BOREN, 2020-

30-06-30-001), 2020 - 2023

Kutluay S., Project Supported by Higher Education Institutions, Perlit destekli manyetik nanoparçacıklar ile çok bileşenli bir sistemde uçucu organik bileşiklerin dinamik rekabetçi adsorpsiyon davranışının değerlendirilmesi (Proje No: 2021-SİÜFEB-054), 2021 - 2022

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