

Asst. Prof. Serdar ARAL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABC-3370-2021

ScopusID: 57189216832

Yoksis Researcher ID: 266591

Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2016 - 2021

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimyasal Teknolojiler, Turkey 2012 - 2014

Undergraduate Double Major, Ataturk University, Ziraat Fakültesi, Gıda Mühendisliği, Turkey 2009 - 2013

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2008 - 2012

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

IT, Bilgisayar Operatörlüğü, Halk Eğitim Merkezi, 2009

Dissertations

Doctorate, ATIL DURUMDAKİ BİLGİSAYAR ANAKARTLARINDA BULUNAN METAL VE DEĞERLİ METALLERİN ÇOK AŞAMALI HİDROMETALURJİK YÖNTEM KULLANILARAK GERİ KAZANILMASI, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, 2021

Postgraduate, ALIÇ (Crataegus aronia L.) MEYVESİNİN KURUMA DAVRANIŞININ İNCELENMESİ, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, 2014

Research Areas

Chemical Engineering and Technology, Chemical Technologies, Environmental Chemistry and Technology, Inorganic Technologies, Basic Operations and Thermodynamics, Transport Events, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2023 - Continues
Research Assistant PhD, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - 2023
Research Assistant, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2017 - 2021

Courses

Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2023 - 2024
KOROZYON MÜHENDİSLİĞİ VE UYGULAMALARI, Postgraduate, 2023 - 2024
Undergraduate, 2020 - 2021
Kimya Mühendisliği Laboratuvarı I, Undergraduate, 2016 - 2017
Kimya Mühendisliği Laboratuvarı III, Undergraduate, 2016 - 2017
Genel Kimya Laboratuvarı, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Multi-Objective Optimization of the Recovery of Base and Precious Metals from Waste Printed Circuit Boards by Two-Stage Hydrometallurgical Process Using Taguchi-Based Grey Relationship Analysis**
Aral S., Beşe A. V.
JOURNAL OF SUSTAINABLE METALLURGY, vol.10, no.3, pp.1250-1266, 2024 (SCI-Expanded)
- II. **Production of Effective Activated Carbon from Scotch Pine Bark and Investigation of the Adsorption Properties**
ARAL S.
IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION, vol.42, no.12, pp.4069-4083, 2023 (SCI-Expanded)
- III. **Convective drying of hawthorn fruit (*Crataegus spp.*): Effect of experimental parameters on drying kinetics, color, shrinkage, and rehydration capacity**
Aral S., Beşe A. V.
Food Chemistry, vol.210, pp.577-584, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of mass and heat transfer coefficients, energy consumption and efficiency of in dehydration of Cornelian Cherry**
Polatoğlu B., Aral S.
Journal of Brilliant Engineering (BEN), vol.3, no.4, pp.1-8, 2022 (Peer-Reviewed Journal)
- II. **Effect of Temperature on Rehydration of Cornelian Cherry Fruit: A Kinetics Study**
Aral S.
Journal of Brilliant Engineering (BEN), vol.3, no.4, pp.1-7, 2022 (Peer-Reviewed Journal)
- III. **Thin-Layer Drying Characteristics of Microwave-Dried Radix Eremut (*Eremurus Spectabilis*)**
Aral S., Kızıldaş H., Kızılca M.
Aksaray University Journal of Science and Engineering, vol.1, no.2, pp.56-70, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Sarıçam kabuğu ile metilen blue biyosorpsiyonu ve biyosorpsiyon izotermi ve kinetiğinin incelenmesi**
ARAL S.
1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 December 2022,

pp.973-980

- II. **Atık baskılı devre kartlarından değerli metal için optimizasyonu**
ARAL S., BEŞE A. V.
1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 December 2022, pp.967-972
- III. **Atık Baskılı Devre Kartlarından Basınçlı Ortamda Cu, Fe Ve Zn İçinin Optimizasyonu**
Aral S., Beşe A. V.
3. International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 10 - 11 February 2022
- IV. **Kızılciğın Konvektif Bir Kurutucuda Kurutulmasında Isı ve Kütle Transfer Katsayıları ve Termodinamik Özelliklerinin Belirlenmesi**
Polatoğlu B., Aral S., Beşe A. V.
3rd International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 10 - 11 February 2022, no.52866
- V. **Optimization of Drying Rosmarinus Officinalis Plant With Response Surface Method**
Kızılca M., Aral S., Beşe A. V.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.425-430
- VI. **Production of Activated Carbon from Miswak by Using Chemical Activation Method**
Mercan C., Kızılca M., Aral S., Beşe A. V.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.420-424
- VII. **Optimization of Microwave Drying of Rosemary (Rosmarinus Officinalis L.)**
KURT H., BEŞE A. V., ARAL S.
MAS INTERNATIONAL CONFERENCEON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, Erzurum, Turkey, 2 - 05 May 2019, pp.765-771
- VIII. **Thermodynamic Investigation for Drying in a Convective Dryer of Hawthorn Fruits**
ARAL S., BEŞE A. V.
MAS INTERNATIONAL CONFERENCEON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, Erzurum, Turkey, 2 - 05 May 2019, pp.756-764
- IX. **Energy and Exergy Analysis of Thin Layer Drying of Hawthorn Fruit in a Convective Dryer**
ARAL S., BEŞE A. V.
International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017, pp.1572-1577
- X. **Investigation of physicochemical properties such ascolor, shrinkage, rehydration and internal structureof hawthorn fruit (Crataegus spp.) dried**
ARAL S., BEŞE A. V.
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.148-1451
- XI. **ALIÇ (Crataegus aronia L.) MEYVESİNİN KURUMA KİNETİĞİNİN İNCELENMESİ**
ARAL S., BEŞE A. V.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014

Supported Projects

TEKİN T., DEMİR F., KIZILTAŞ H., ARAL S., Project Supported by Higher Education Institutions, Atatürk Üniversitesi Mühendislik Fakültesi Yakıt Analiz Laboratuvarı Koordinatörlüğü Donanım Projesi, 2024 - Continues

İPEK ÇOBAN G., ARAL S., ÇOBAN M. K., Project Supported by Higher Education Institutions, BOS Kaçağını Tespit Eden Burun Tamponu, 2023 - 2024

TEKİN T., DEMİR F., KIZILTAŞ H., ARAL S., Project Supported by Higher Education Institutions, Atatürk Üniversitesi

Mühendislik Fakültesi Kimya Mühendisliği Bölümü Akaryakıt Analiz Laboratuvarı Donanım Projesi, 2022 - 2024
Beşe A. V., Aral S., Project Supported by Higher Education Institutions, E-ATIKLARDAN HİDROMETALURJİK YÖNTEM
KULLANILARAK METALLERİN GERİ KAZANILMASI, 2021 - 2021

Scientific Refereeing

JOURNAL OF AGRICULTURAL SCIENCE AND TECHNOLOGY, SCI Journal, April 2018

Metrics

Publication: 17

Citation (WoS): 192

Citation (Scopus): 211

H-Index (WoS): 1

H-Index (Scopus): 1