

## Asst. Prof. ECEM MÜGE ANDOĞLU ÇOŞKUN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, Chemical Engineering, Turkey 2015 - 2022

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Chemical Engineering, Turkey 2012 - 2015

Undergraduate, Bilecik Seyh Edebali University, Mühendislik Fakültesi, Chemical and Process Engineering, Turkey 2008 - 2012

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Claus prosesi reaksiyon fırını ve atık ısı kazanının modellenmesi ve optimizasyonu, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, 2022

Postgraduate, Determination of a low-cost agent for sulfate removal in anodic oxidation process, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2015

### Research Areas

Chemical Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Bilecik Seyh Edebali University, Mühendislik Fakültesi, Kimya Mühendisliği, 2024 - Continues

Lecturer PhD, Bilecik Seyh Edebali University, Meslek Yüksekokulu, Gıda İşleme, 2023 - 2024

Research Assistant, Bilecik Seyh Edebali University, Mühendislik Fakültesi, Kimya Mühendisliği, 2013 - 2022

### Courses

Food Industry Machinery and Equipment, Associate Degree, 2023 - 2024

Process Applications, Associate Degree, 2023 - 2024  
Food Industry Wastes and Evaluation, Associate Degree, 2023 - 2024  
Unit Operations in Food Processing, Associate Degree, 2023 - 2024  
Environmental Management Systems, Associate Degree, 2023 - 2024  
Instrumental Analysis and Applications Foods, Associate Degree, 2023 - 2024  
Instrumental Analysis in Foods, Associate Degree, 2023 - 2024  
Unit Operations in Food Processing, Associate Degree, 2023 - 2024  
Mathematical Modeling, Undergraduate, 2022 - 2023  
Advanced Chemical Engineering Thermodynamics, Doctorate, 2022 - 2023  
Chemical Engineering Laboratory II, Undergraduate, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Using Reduced Kinetic Model for the Multi-Objective Optimization of Thermal Section of the Claus Process Leading to a More Cost-Effective and Environmentally Friendly Operation**  
ANDOĞLU ÇOŞKUN E. M., Kaytakoglu S., Manenti F., Di Pretoro A.  
Processes, vol.12, no.1, 2024 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A machine-learning reduced kinetic model for H<sub>2</sub>S thermal conversion process**  
Dell'Angelo A., ANDOĞLU E. M., Kaytakoglu S., Manenti F.  
Chemical Product and Process Modeling, vol.18, no.1, pp.117-133, 2023 (ESCI)
- II. **Mitigating carbon dioxide impact of fossil/bio-refineries by acid gas to syngas technology: Sensitivity analysis and techno-economic assessment**  
Dell'angelo A., Andoglu E. M., Bozzano G., Kaytakoglu S., Manenti F.  
Journal of Sustainable Development of Energy, Water and Environment Systems, vol.9, no.3, 2021 (ESCI)
- III. **Methanol production from biomass gasification: Techno-economic assessment of different feedstocks**  
Amaral A. F., Previtali D., Dell'Angelo A., Bisotti F., Pretoro A. D., Andoglu E. M., Colombo S., Manenti F.  
Chemical Engineering Transactions, vol.74, pp.1237-1242, 2019 (Scopus)
- IV. **Smart implementation of bender equation of state**  
Bisotti F., di Pretoro A., Dell'Angelo A., Previtali D., Amaral A. F., ANDOĞLU E. M., Manenti F.  
Chemical Engineering Transactions, vol.74, pp.715-720, 2019 (Scopus)
- V. **Reduced and detailed kinetic models comparison for thermal furnace of sulfur recovery units**  
Andoglu E. M., Dell'Angelo A., Ranzi E., Kaytakoglu S., Manenti F.  
Chemical Engineering Transactions, vol.74, pp.649-654, 2019 (Scopus)
- VI. **Chemical Composition of Turkish Okra Seeds Hibiscusesculenta L and The Total Phenolic Contents of Okra Seeds Flour**  
AÇIKGÖZ Ç., AKPINAR BORAZAN A., GÖKDAI D., ANDOĞLU E. M.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.17, no.5, pp.766-774, 2016 (Peer-Reviewed Journal)
- VII. **A case study of effective factors on the right industrial lubricating oil choosing**  
AKPINAR BORAZAN A., AÇIKGÖZ Ç., ANDOĞLU E. M.  
JOURNAL OF ENGINEERING RESEARCH AND APPLIED SCIENCE, vol.2, no.2, pp.161-166, 2013 (Peer-Reviewed Journal)

- I. **Environmental Sustainability Of Microalgae-Based Systems**  
DÖKEN S., ANDOĞLU ÇOŞKUN E. M., ATILGAN TÜRKMEN B.  
15. Ulusal 3. Uluslararası Çevre Mühendisliği Kongresi, Turkey, 23 - 25 November 2023
- II. **Kinetic parameter estimation of Claus reaction**  
ANDOĞLU E. M., KAYTAKOĞLU S.  
2018 Optimization Days, Montreal, Canada, 7 - 09 May 2018
- III. **A review on the optimization studies of sulfur recovery unit**  
ANDOĞLU E. M., KAYTAKOĞLU S.  
2018 Optimization Days, Montreal, Canada, 7 - 09 May 2018
- IV. **An investigation into Changes in Lubricant Oil Properties after a Long-Term Usage**  
ANDOĞLU E. M., AKPINAR BORAZAN A.  
ISAS 2018 Antalya/Turkey, Turkey, 11 - 13 April 2018
- V. **Glazing Recipe Selection with AHP for Ceramic Floor Tiles**  
AKPINAR BORAZAN A., AÇIKGÖZ Ç., GÖKDAI D., ANDOĞLU E. M.  
4th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2017), 4 - 08 October 2017
- VI. **The effect of storage on secondary metabolites of selected IQF fruits**  
ANDOĞLU E. M., AKPINAR BORAZAN A.  
3rd International Conference on Science, Ecology and Technology(ICONSETE 2017), Roma, 14 - 16 August 2017
- VII. **Sulfate Ions Removal from Anodizing Wastewater**  
ANDOĞLU E. M., ELNEKAVE M.  
1st International Black Sea Congress on Environmental Sciences (IBCESS-2016), Giresun, Turkey, 31 August - 03 September 2016
- VIII. **EFFECT OF MARBLE HOP WASTE RATIOS ON MECHANICAL PROPERTIES OFPOLYESTER MATRIX COMPOSITES**  
ANDOĞLU E. M., AKPINAR BORAZAN A., AÇIKBAŞ G.  
Proceedings of the 14th International Conference on Environmental Science and Technology(CEST2015), 3 - 05 September 2015
- IX. **Operating cost optimization in industrial wastewater treatment a case study for aluminum plant**  
ANDOĞLU E. M., ELNEKAVE M.  
14th Conference on Environmental Science and Technology (CEST 2015), Rhodes, Greece, 3 - 05 September 2015
- X. **Micelle Behaviors of Anionic Surfactant Linear Alkyl Benzene Sulphonic Acid LABSA and Nonionic Surfactant Tergitol NP 10 in Aqueous Solution on Carbon Black**  
BALBAY Ş., ANDOĞLU E. M.  
The 6th International Congress of Energy and Environment Engineering and Management (CIEM15), 22 - 24 July 2015
- XI. **Şerbetçiotu Humulus lupulus L ve Atığının Değerlendirilmelerinde Alternatif Uygulamalar**  
AKPINAR BORAZAN A., ANDOĞLU E. M., AÇIKGÖZ Ç.  
EKOLOJİ 2015 SEMPOZYUMU, Turkey, 6 - 09 May 2015
- XII. **The Influence Factors on Decision Making to Choose the Right Industrial Lubricating Oil a Research in Bilecik Industry**  
AKPINAR BORAZAN A., ANDOĞLU E. M.  
Eurasia Waste Management Symposium(EURASIA 2014), 28 - 30 April 2014
- XIII. **Commercial Apple Juices with a Controlled Phenolic Content and Antioxidant Capacity**  
ANDOĞLU E. M., AKPINAR BORAZAN A.  
Food Integrity Traceability Conference 2014(ASSET2014), 6 April - 11 June 2014
- XIV. **Ekstraksiyon Koşullarının Şerbetçiotu Humulus Lupus L Peletlerinden Elde Edilen Yağ Verimi Üzerine Etkileri**  
AKPINAR BORAZAN A., ANDOĞLU E. M.  
Türkiye 11. Gıda Kongresi, Turkey, 10 - 12 October 2012
- XV. **Ekstraksiyon Koşullarının Şerbetçiotu Humulus lupulus L Peletlerinden Elde Edilen Yağ Verimi**

### **Üzerine Etkileri**

AKPINAR BORAZAN A., ANDOĞLU E. M.

11.Gıda Kongresi, Hatay, Turkey, 10 - 12 October 2012

XVI. **Phenolic Content and Their Antiradical Activity of The Hops (*Humulus lupulus* L.) Varieties Cultivated in Turkey**

AKPINAR BORAZAN A., ANDOĞLU E. M.

15th European Congress On Biotechnology (Ecb15), 23 - 26 September 2012, vol.29, pp.121-122

XVII. **Türkiye de Yetiştirilen Bazı Şerbetçiotu *Humulus lupulus* L Türlerinde Fenolik Madde İçeriği ve Antioksidan Aktivitesi**

AKPINAR BORAZAN A., ANDOĞLU E. M.

17.Ulusal Biyoteknoloji Kongresi, İstanbul, Turkey, 23 - 26 September 2012

XVIII. **Şerbetçiotu *Humulus lupulus* L Yağının Çözücü Ekstraksiyonu**

AKPINAR BORAZAN A., ANDOĞLU E. M.

10.Ulusal Kimya Mühendisliği Kongresi (UKMK-10), İstanbul, Turkey, 3 - 06 September 2012

### **Scientific Refereeing**

APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, January 2023

### **Scholarships**

Modeling and Optimization of Thermal Stage of Sulfur Recovery Unit, TUBITAK, 2018 - 2019