

## Asst. Prof. Meltem KIZILCA ÇORUH

### Personal Information

**Fax Phone:** [+90 442 231 4544](tel:+904422314544)

**Office Phone:** [+90 442 231 4798](tel:+904422314798)

**Web:** <https://avesis.atauni.edu.tr/mkizilca>

### International Researcher IDs

ScholarID: U3743BUAAAAJ

ORCID: 0000-0001-8734-2502

Yoksis Researcher ID: 122965

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2015

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2007 - 2009

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya, Turkey 1998 - 2002

### Dissertations

Doctorate, KOLEMANİTTEN YÜKSEK BASINÇLI REAKTÖRDE TRİMETİL BORAT ÜRETİMİ, Atatürk Üniversitesi, Fen Bilimleri, Kimya Mühendisliği, 2015

Postgraduate, KALKOPİRİTİN KAVRULMASI VE KAVRULMUŞ KALKOPİRİTİN SO<sub>2</sub>'DE ÇÖZÜNDÜRÜLMESİ, Atatürk Üniversitesi, Fen Bilimleri, Kimya Mühendisliği, 2009

### Research Areas

Environmental Chemistry and Technology, Inorganic Technologies, Chemistry, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2017 - Continues

Research Assistant, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2007 - 2015

### Courses

FİZİKSEL KİMYA, Undergraduate, 2022 - 2023

ELEKTROKİMYASAL TEKNOLOJİLER, Undergraduate, 2023 - 2024

HİDROMETALURJİK SÜREÇLERİN KİMYASI, Postgraduate, 2023 - 2024, 2020 - 2021, 2019 - 2020, 2018 - 2019

ISI TRANSFERİ, Undergraduate, 2021 - 2022, 2020 - 2021

BİTİRME ÖDEVİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2018 - 2019

Uzmanlık alan dersi, Postgraduate, 2021 - 2022, 2020 - 2021

Danışmanlık, Postgraduate, 2021 - 2022, 2020 - 2021

Bitirme projesi, Undergraduate, 2021 - 2022, 2020 - 2021

ENSTRÜMENTAL ANALİZ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2015 - 2016  
KOROZYON VE KORUNMA, Undergraduate, 2019 - 2020  
KİMYA MÜHENDİSLİĞİ LABORATUARI - I, Undergraduate, 2019 - 2020  
KİMYA MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2018 - 2019, 2017 - 2018  
AKIŞKANLAR MEKANİĞİ, Undergraduate, 2017 - 2018

## Jury Memberships

Doctorate, Doctorate, Atatürk Üniversitesi, August, 2022  
Doctorate, Doctorate, Çankırı Karatekin Üniversitesi, June, 2022

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

- I. **Thermal dehydration of colemanite: kinetics and mechanism determined using the master plots method**  
KIZILCA ÇORUH M., ÇOPUR M.  
CANADIAN METALLURGICAL QUARTERLY, vol.56, no.3, pp.259-271, 2017 (SCI-Expanded)
- II. **Investigation of the Thermal Decomposition Kinetics of Chalcopyrite Ore Concentrate using Thermogravimetric Data**  
Kizilca M., Copur M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.203, no.5, pp.692-704, 2016 (SCI-Expanded)
- III. **Determination of the Optimum Conditions for Copper Leaching from Chalcopyrite Concentrate Ore Using Taguchi Method**  
Copur M., Kizilca M., Kocakerim M. M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.202, no.7, pp.927-935, 2015 (SCI-Expanded)
- IV. **Kinetic Investigation of Reaction Between Colemanite Ore and Methanol**  
KIZILCA M., ÇOPUR M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.202, no.11, pp.1528-1534, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Pyrolytic Degradation Behavior of Biomass Seeds: Cherry And Peach Seed**  
ÇORUH M. K., BAYRAKÇEKEN H.  
Kocaeli Journal of Science and Engineering , vol.3, no.2, pp.46-65, 2020 (Peer-Reviewed Journal)
- II. **Determination Of Pyrolysis Kinetics Of Pistachio Shell And Cranberry Seed**  
BAYRAKÇEKEN H., KIZILCA M.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.12, pp.847-856, 2020 (Peer-Reviewed Journal)
- III. **Taguchi Approach and ANOVA in optimization of the dissolution of colemanite in CO<sub>2</sub> and SO<sub>2</sub>-water systems**  
Ekinci Z., Kurdal E., Kızılca M.  
Current Physical Chemistry, vol.9, pp.1-10, 2020 (Peer-Reviewed Journal)
- IV. **Thin-Layer Drying Characteristics of Microwave-Dried Radix Eremut (Eremurus Spectabilis)**  
Aral S., Kızıldağ H., Kızılca M.  
Aksaray University Journal of Science and Engineering, vol.1, no.2, pp.56-70, 2017 (Peer-Reviewed Journal)
- V. **The connection calcination and sulphation with the thermal behavior of chalcopyrite ore concentrate**  
KIZILCA M., ÇOPUR M.  
PAP-WCTIE, 2017 (Peer-Reviewed Journal)

- VI. **An optimization study on dissolution of the calcined colemanite mineral in methyl-alcohol by CO<sub>2</sub> in an autoclave system using Taguchi method**  
KIZILCA M., ÇOPUR M.  
PAP-WCTIE, vol.5, pp.198-204, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Termik Santral Baca Gazlarındaki CO<sub>2</sub> ve SO<sub>2</sub>'nin Hibrit Prosesinde Değerlendirilmesi**  
KIZILCA M.  
in: Mühendislik Bilimlerinde Güncel Yaklaşımlar, Dr. Öğr. Üyesi Mustafa Alptekin ENGİN, Dr. Öğr. Üyesi Yunus KAYA, Editor, Platanus Publishing, pp.96-109, 2023
- II. **Biyokütle Bileşenlerinin Isıl Özelliklerinin Önemi**  
KIZILCA M.  
in: Interdisciplinary Studies on Contemporary Research Practices in Engineering in the 21st Century-II, Prof. Dr. Kamil Kaygusuz, Editor, Özgür Yayınları, pp.61-70, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Determination Of Pyrolysis Kinetics Of Pistachio Shell And Cranberry Seed**  
BAYRAKÇEKEN H., KIZILCA M.  
INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS AND NANOTECHNOLOGY, 19 August - 20 September 2019
- II. **INVESTIGATION OF PYROLYSIS KINETICS OF NON-ISOTHERMAL CONDITIONS FROM BIOMASS SEEDS**  
KIZILCA M., BAYRAKÇEKEN H.  
MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, Erzurum, Turkey, 2 - 05 May 2019
- III. **Trimethyl Borate Production From Colemanite Mineral**  
KIZILCA M., ÇOPUR M.  
Mas International Conference On Mathematics-Engineering-Naturalmedical Sciences-V, Erzurum, Turkey, 2 - 05 May 2019, pp.362-374
- IV. **KIZILCIK MEYVESİ ÇEKİRDEĞİNDEN AKTİF KARBON ÜRETİMİ: OPTİMİZASYON VE KARAKTERİZASYON**  
SERCAN G., KIZILCA M., EKİNCİ Z., BEŞE A. V.  
UKMK13, Van, Turkey, 3 - 06 September 2018
- V. **A statistical analysis of the dissolution of colemanite in CO<sub>2</sub> and SO<sub>2</sub>- water systems using Minitab software: A Taguchi Approach**  
KURDAL E., EKİNCİ Z., KIZILCA M.  
IAREC, 16 - 18 November 2017
- VI. **An Optimization Study on Dissolution of The Calcined Colemanite Mineral In Methyl Alcohol By Co<sub>2</sub> In An Autoclave System Using Taguchi Method**  
KIZILCA M., ÇOPUR M.  
ISTANBUL UNIVERSITY 2nd WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, 12 - 14 May 2017
- VII. **The Connection Calcination and Sulphation With The Thermal Behavior of Chalcopyrite Ore Concentrate**  
KIZILCA M., ÇOPUR M.  
ISTANBUL UNIVERSITY 2nd WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, 12 - 07 May 2017
- VIII. **OPTIMIZATION OF THE DISSOLUTION OF COLEMANİTE MINERAL IN METHANOL AT HIGH**

## TEMPERATURES AND HIGH PRESSURES

KIZILCA M., ÇOPUR M.

International Conference on Computer Applications in the minerals Industries, 5 - 07 October 2016

- IX. **STRUCTURAL CHARACTERIZATION AND THE THERMAL DECOMPOSITION KINETICS OF CHALCOPYRITE ORE CONCENTRATE APPLICATION OF NON ISOTHERMAL MODELS**  
KIZILCA M., ÇOPUR M.  
international Conference on Computer Applications in the Minerals Industries, 5 - 07 October 2016
- X. **YÜKSEK BASINÇ VE YÜKSEK SICAKLIKTA METANOL DE KOLEMANİT MİNERALİNİN CO<sub>2</sub> İLE ÇÖZÜNMESİNİN OPTİMİZASYONU**  
KIZILCA M., ÇOPUR M.  
UKMK 2016, Turkey, 23 - 26 August 2016
- XI. **Kolemanitin Yüksek Basınçlı Reaktörde Metanollü Ortamda CO<sub>2</sub> ile Çözündürülmesinin Optimizasyonu**  
KIZILCA M., ÇOPUR M., MMUHTAR K.  
11.Ulusal Kimya Mühendisliği Kongresi, 2 - 05 September 2014
- XII. **Kavrulmuş Kalkopiritin SO<sub>2</sub> ile Doyurulmuş Sulu Çözeltideki Çözünme Kinetiği**  
KIZILCA M., ÇOPUR M., MMUHTAR K.  
KONGRE, Turkey, 3 - 06 September 2012
- XIII. **Kalkopiritin Termal Bozunma Mekanizması**  
KIZILCA M., ÇOPUR M., MMUHTAR K.  
25.ULUSLARARASI KATILIMLI ULUSAL KİMYA KONGRESİ, Erzurum, Turkey, 27 June - 02 July 2011
- XIV. **Kalkopiritin Kavrulması**  
KIZILCA M., ÇOPUR M., MMUHTAR K.  
ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, İstanbul, Turkey, 22 - 25 June 2010
- XV. **Determination of the optimum conditions of roasting and dissolution of chalcoppyrite**  
KIZILCA M., ÇOPUR M., MMUHTAR K.  
BALKANMINE 2009, İzmir, Turkey, 1 - 03 October 2009, pp.231-242

## Expert Reports

- I. **Ağır intihal endişesi**  
BAYRAKÇEKEN YURTCAN A., KIZILCA ÇORUH M., KANCA A.  
Konya Teknik Üniversitesi, pp.6, Konya, 2019

## Scientific Refereeing

International Journal of Chemistry and Technology, National Scientific Refreed Journal, December 2022

International Journal of Life Sciences and Biotechnology, National Scientific Refreed Journal, August 2022

HYDROMETALLURGY, SCI Journal, May 2022

Project Supported by Higher Education Institutions, BAP Research Project, Kafkas University, Turkey, December 2021

INTERNATIONAL JOURNAL OF THERMODYNAMİCS, National Scientific Refreed Journal, September 2021

INTERNATIONAL JOURNAL OF THERMODYNAMİCS, National Scientific Refreed Journal, July 2021

Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, December 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Gazi University, Turkey, January 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ege University, Turkey, January 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Gazi University, Turkey,

January 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Suleyman Demirel University, Turkey, January 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Konya Technical University, Turkey, January 2020

Project Supported by Higher Education Institutions, BAP Research Project, Kafkas University, Turkey, March 2019

PHILIPPINE AGRICULTURAL SCIENTIST, Journal Indexed in SCI-E, January 2018

CHEMICAL ENGINEERING COMMUNICATIONS, Journal Indexed in SCI-E, September 2017

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, Journal Indexed in SSCI, July 2017

CHEMICAL ENGINEERING COMMUNICATIONS, Journal Indexed in SCI-E, February 2017

CHEMICAL ENGINEERING COMMUNICATIONS, Journal Indexed in SCI-E, August 2016

## **Metrics**

Publication: 30

Citation (WoS): 41

Citation (Scopus): 40

H-Index (WoS): 4

H-Index (Scopus): 4

## **Congress and Symposium Activities**

İAREC, Moderator, Osmaniye, Turkey, 2017