

# Asst. Prof. EMİNE EKİNCİ

## Personal Information

**Office Phone:** [+90 312 582 3550](tel:+903125823550)

**Email:** eminekaya@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/eminekaya>

### International Researcher IDs

ScholarID: f1TdoxkAAAAJ

ORCID: 0000-0002-0958-1513

Publons / Web Of Science ResearcherID: AHA-9636-2022

ScopusID: 56884211200

Yoksis Researcher ID: 132901

## Education Information

2008 - 2013	Doctorate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey
2005 - 2007	Postgraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey
2000 - 2005	Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey

## Dissertations

2013	Gliserin esterifikasyon reaksiyonu için katalizör sentezi, karakterizasyonu ve performanlarının incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Doctorate
2007	Azot oksit (NOx) tutucu adsorbent geliştirme ve karakterizasyonu, Gazi University, Fen Bilimleri Enstitüsü, Postgraduate

## Research Areas

Biofuels, Air Pollution and Control, Fuels and Combustion Technology, Chemical Reaction Engineering, Catalysis and Catalytic Processes, Hydrogen Technologies and Fuel Cells, Alternate Fuels and Energy Resources, Material Characterization, Composites, Fuel production technology

## Academic Titles / Tasks

2023 - Continues	Assistant Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği
2005 - 2023	Research Assistant PhD, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği

## Courses

2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Occupational Health and Safety-II, Undergraduate
2021 - 2022	Computer Programming Languages, Undergraduate
2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018	Lisans Araştırma Projesi, Undergraduate

2021 - 2022, 2019 - 2020	Chemical Reaction Engineering, Undergraduate
2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018	Bitirme Ödevi, Undergraduate
2020 - 2021, 2017 - 2018	Bilgisayar Programlama Dilleri, Undergraduate
2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Occupational Health and Safety-I, Undergraduate
2020 - 2021	Fire Safety, Undergraduate
2020 - 2021	Basic Principles of Chemical Engineering, Undergraduate
2018 - 2019	Fluid Mechanics, Undergraduate
2018 - 2019	İş Sağlığı ve Güvenliği-II, Undergraduate
2018 - 2019	Air Pollution and Removal Methods, Undergraduate
2017 - 2018	Kimya Mühendisliği Laboratuvar II, Undergraduate
2018 - 2019	İş Sağlığı ve Güvenliği-I, Undergraduate

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

- I. **Effect of the Amount and Type of Active Metal and Its Impregnation Sequence on Bio-Fuel Production**  
Ozcan M. C., DEĞİRMENCİOĞLU P., Karaman E. E. B. P., MÜRTEZAOĞLU K., OKTAR N.  
Applied Catalysis A: General, vol.683, 2024 (SCI-Expanded)
- II. **Non-oxidative ethane dehydrogenation reaction over molybdenum and chromium incorporated MgO encapsulated carbon-core catalysts in microwave reactor**  
Karaman B., EKİNCİ E.  
Research on Chemical Intermediates, vol.50, no.7, pp.3197-3222, 2024 (SCI-Expanded)
- III. **Catalytic Performances of Ni-containing Mesoporous TUD-1 Catalysts in Steam Reforming of Acetic Acid**  
Ekinci E., Oruç M., Oktar N., Mürtezaoğlu K.  
CATALYSIS LETTERS, no.early acces, pp.1-11, 2024 (SCI-Expanded)
- IV. **Süperkritik karbondioksit kurutma kullanılarak biyokütleden karbon aerojel sentezi ve karakterizasyonu**  
Ekinci E., Ekinci M. S.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.1, pp.351-358, 2024 (SCI-Expanded)
- V. **Mesoporous magnesia sorbent for removal of organic contaminant methyl tert -butyl ether (MTBE) from water**  
Ekinci E.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.6, pp.843-853, 2022 (SCI-Expanded)
- VI. **Coke-resistance enhancement of mesoporous gamma-Al<sub>2</sub>O<sub>3</sub> and MgO-supported Ni-based catalysts for sustainable hydrogen generation via steam reforming of acetic acid**  
İbrahim S. A., Ekinci E., Karaman B., Oktar N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.77, pp.38281-38298, 2021 (SCI-Expanded)
- VII. **Production of value-added chemicals from esterification of waste glycerol over MCM-41 supported catalysts**  
Ekinci E., Oktar N.  
GREEN PROCESSING AND SYNTHESIS, vol.8, no.1, pp.128-134, 2019 (SCI-Expanded)

- VIII. **Activity Comparison of Acidic Resins in the Production of Valuable Glycerol Acetates**  
EKİNCİ E., Gunduz G., OKTAR N.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.14, no.1, pp.309-314, 2016 (SCI-Expanded)
- IX. **PRODUCTION OF VALUABLE CHEMICALS VIA ESTERIFICATION AND ACETYLATION OF GLYCEROL, BY-PRODUCT OF BIODIESEL**  
EKİNCİ E., Gunduz G., OKTAR N.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.3, pp.443-450, 2015 (SCI-Expanded)
- X. **Synthesis and characterization of Ba/MCM-41**  
Kaya E., OKTAR N., KARAKAŞ G., Murtezaoglu K.  
TURKISH JOURNAL OF CHEMISTRY, no.6, pp.935-943, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **MESOPOROUS ALUMINOSILICATE SUPPORTED CATALYSTS IN ALTERNATIVE FUEL HYDROGEN PRODUCTION**  
Saleh A. İ., Ekinci E., Pekmezci Karaman B., Oktar N.  
Konya Journal of Engineering Sciences, vol.9, pp.107-123, 2021 (Peer-Reviewed Journal)
- II. **Yeni Nesil MIL-101 Malzemesi Sentez ve Karakterizasyon Çalışmaları**  
Ekinci E.  
Gazi University Journal of Science, vol.5, 2017 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of Biomass-Based Porous Carbon Materials For Supercapacitors**  
Ekinci E., Ekinci M. S.  
4th Bioenergy Studies Symposium, Ankara, Turkey, 26 - 27 May 2022
- II. **Dehydrogenation of ethane in microwave heated reactor with chromium and molybdenum catalysts; Effect of catalyst synthesis method**  
Ekinci E., Pekmezci Karaman B., Ibrahim S. A.  
6th International Hydrogen Technologies Congress, Çanakkale, Turkey, 23 - 26 January 2022, pp.152-153
- III. **MIL-101 STRUCTURED MATERIALS AND ITS APPLICATION IN CLEAN HYDROGEN PRODUCTION**  
YEĞENOĞLU E. C., EKİNCİ E., VARIŞLI D.  
6th International Hydrogen Technologies Congress, 23 January 2022
- IV. **Dimetil Eterin Doğrudan Üretim Prosesinde Tehlikelerin Değerlendirilmesi**  
Çukadar E., EKİNCİ E., EKİNCİ M. S., PEKMEZCİ KARAMAN B.  
14. Ulusal Kimya Mühendisliği Kongresi (UKMK-2020), Konya, Turkey, 10 June 2021
- V. **Hydrogen production over Ni-containing MgO supported catalyst: Effect of hydrothermal process duration in catalysts synthesis**  
Saleh A. İ., EKİNCİ E., PEKMEZCİ KARAMAN B., OKTAR N.  
5th International Hydrogen Technologies Congress, Niğde, Turkey, 26 May 2021
- VI. **Coke minimization through Ni-based mesoporous catalysts in steam reforming of acetic acid for hydrogen production: Effect of temperature and feed molar ratio**  
Ahmat İbrahim S., Ekinci E., Pekmezci Karaman B., Oktar N.  
3rd International Hydrogen Energy Conference and Exhibitions (IHEC 2021) , Ankara, Turkey, 14 - 16 June 2021, pp.24-25
- VII. **Destekli Nikel İçerikli Katalizörler ile Biyokütleden Hidrojen Üretimi Katalizör Destek Malzemelerinin ve Reaksiyon Sıcaklığının Etkileri**

Saleh A. I., Ekinci E., Pekmezci Karaman B., Oktar N.

32. Ulusal Kimya Kongresi, Ankara, Turkey, 17 - 19 September 2020

- VIII. **Adsorptive Removal of Methyl Tertiary Butyl Ether (MTBE) from Water on Hydrophobic Metal-Organic Frameworks (MOFs)**  
EKİNCİ E.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019
- IX. **TUD-1 Destekli Ni Katalizörlerin Varlığında Asetik Asitten Reformlama Reaksiyonuyla Hidrojen Üretimi**  
Ekinci E., Oruç M., Arbağ H., Oktar N., Mürtezaoğlu K.  
Ulusal Kimya Mühendisliği Kongresi UKMK-13, Van, Turkey, 3 - 06 September 2018
- X. **Ni Incorporated TUD-1 Synthesis, Characterization and Catalytic Performances in Hydrogen Production**  
EKİNCİ E., Oruç M., ARBAĞ H., OKTAR N., MÜRTEZAOĞLU K.  
EMCC-9, 31 August - 02 September 2018
- XI. **Adsorption of NOx on Barium-based MCM-41 sorbents**  
Ekinci E., Mürtezaoğlu K., Oktar N.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- XII. **Synthesis Studies of the Promising Catalyst MIL 101**  
Ekinci E.  
The 6th Catalysis Conference, Bursa, Turkey, 27 - 30 April 2016
- XIII. **Yeni Nesil Katalizörler Relite EXC8D Ve Smopex 101 Varlığında Esterleşme Reaksiyon Çalışmaları**  
EKİNCİ E., Surmelioglu H., OKTAR N.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 September 2015, pp.762
- XIV. **Gliserol İle Asetik Asitin Esterleşmesi Farklı Asidik Reçinelerin Rolü**  
EKİNCİ E., OKTAR N.  
NCC5, Adana, Turkey, 23 - 26 April 2014
- XV. **Production of Fine Chemicals From Glycerol Byproduct of Biodisel via Mesoporous MCM 41 Supported Catalysts**  
EKİNCİ E., OKTAR N.  
PPM1, Çeşme, İzmir, Turkey, 3 - 06 September 2013
- XVI. **Asidik Yapılı Katalizörler Varlığında Gliserin Mono Di ve Tri Esterlerinin Seçici Üretimi**  
EKİNCİ E., OKTAR N.  
UKMK10, İstanbul, Turkey, 3 - 06 September 2012
- XVII. **Effect of Presence of Zeolite Silica gel in the Esterification of Glycerol over Amberlyst 15**  
EKİNCİ E., OKTAR N.  
International Congress of Chemical Engineering, ANQUE ICCE, Sevilla, Spain, 24 June 2012 - 24 June 2017
- XVIII. **Silikotungstik Asit İçerikli Mezogözenekli MCM 41 ve Zirkonyum Oksit Katalizörler Varlığında Gliserinin Asetik Asitle Esterleşme Reaksiyonu**  
EKİNCİ E., OKTAR N.  
NCC4, Kocaeli, Turkey, 21 - 24 March 2012
- XIX. **Ion exchange acidic resin catalysed esterification reaction of glycerol**  
EKİNCİ E., OKTAR N.  
8. European Congress of Chemical Engineering, Berlin, Germany, 25 - 29 September 2011
- XX. **Asidik İyon Değiştirici Reçine Katalizörlüğünde Esterleşme Reaksiyon Çalışmaları**  
EKİNCİ E., GÜNDÜZ MERİÇ G., OKTAR N.  
NCC3, Zonguldak, Turkey, 28 April 2010
- XXI. **Synthesis and Characterization of Mesoporous Structured MCM 41 with Barium**  
EKİNCİ E., OKTAR N., KARAKAŞ G., MÜRTEZAOĞLU K.  
EMCC6, Antalya, Turkey, 7 - 12 March 2010

- XXII. **NO<sub>x</sub> Tutucu Mezogözenekli Adsorbentlerin Sentezi Ve Karakterizasyonu**  
EKİNCİ E., OKTAR N., KARAKAŞ G., MÜRTEZAOĞLU K.  
UKMK8, Malatya, Turkey, 26 August 2008
- XXIII. **Ba incorporated Mesoporous MCM 41 Synthesis and Characterization**  
EKİNCİ E., OKTAR N., KARAKAŞ G., MÜRTEZAOĞLU K.  
5th International Conference on Environmental Catalysis, Belfast, United Kingdom, 31 July 2008 - 03 September 2007
- XXIV. **Synthesis of NO<sub>x</sub> Trap Catalyst Using Impregnation Technique**  
EKİNCİ E., OKTAR N., KARAKAŞ G., MÜRTEZAOĞLU K.  
nnc2, Erzurum, Turkey, 18 - 21 June 2008
- XXV. **Synthesis Characterization NO<sub>x</sub> Sorption Behaviour of BaMCM41**  
EKİNCİ E., OKTAR N., MÜRTEZAOĞLU K.  
Somers symposium, Ankara, Turkey, 14 - 15 May 2007

## Supported Projects

2021 - 2022	Mikroalgalar Isıtmalı Reaktörde Mgo Kapsüllü Karbon Çekirdekli Katalizörler Varlığında Ekosisteme Duyarlı Enerji Üretimi, TÜBİTAK Project
2021 - 2022	Biyokütleden Alternatif Yakıt Hidrojen Üretimi Alümina Destekli Nikel ve Magnezyum İçerikli Katalizörler, Project Supported by Higher Education Institutions
2018 - 2021	Yüksek teknoloji mikro-dalga reaktör ve membran reaktör sistemleri kullanılarak etandan hidrojen üretimi, Project Supported by Higher Education Institutions
2018 - 2019	Nikel İçerikli TUD-1 ve Al-TUD-1 Destekli Katalizörlerin Sentezi, Karakterizasyonu ve Hidrojen Üretim Çalışmalarında Performanslarının Belirlenmesi, Project Supported by Higher Education Institutions
2017 - 2019	Üstün Özellikli TUD-1 Adsorbent Sentezi ve Yapısal Karakterizasyonun Belirlenmesi, Project Supported by Higher Education Institutions
2017 - 2018	Azot Oksit (NO <sub>x</sub> ) Emisyonlarının Gözenekli Katılara Adsorpsiyonu ile Giderimi, Project Supported by Higher Education Institutions
2015 - 2016	Yeni Nesil MIL-101 Malzemesi Sentez ve Karakterizasyon Çalışmaları, Project Supported by Higher Education Institutions
2015 - 2016	Yeni Nesil MIL 101 Malzemesi Sentez ve Karakterizasyon Çalışmaları, Project Supported by Higher Education Institutions
2012 - 2013	Zirkonya Destekli Katalizör Sentezi ve Katalitik Aktivitesinin Test Edilmesi, Project Supported by Higher Education Institutions
2010 - 2011	Gözenekli Asidik Yapılı Katalizör Sentezi Karakterizasyonu ve Reaksiyon Çalışmaları Gliserinin Asetik Asitle Esterleşme Reaksiyonu, Project Supported by Higher Education Institutions
2007 - 2008	Azot Oksit Emisyonlarının Giderilmesinde Kullanılacak Adsorbent Sentezi Ve Karakterizasyonu, Project Supported by Higher Education Institutions
2007 - 2008	Kobalt ve Potasyum Bazlı MCM 41 Destekli Adsorbentlere Azot Dioksit NO <sub>2</sub> Adsorpsiyonunun İncelenmesi, Project Supported by Higher Education Institutions

## Scientific Refereeing

October 2018

INDUSTRIAL AND ENGINEERING CHEMISTRY RESEARCH, SCI Journal

## Metrics

Publication: 37

Citation (WoS): 56

Citation (Scopus): 63

H-Index (WoS): 4

H-Index (Scopus): 4