

Assoc. Prof. FUNDA TURGUT BAŐOĐLU

Personal Information

Office Phone: [+90 312 582 3519](tel:+903125823519)

Email: tfunda@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/tfunda>

Address: Gazi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliđi, Kat:5 No:519 Maltepe, Ankara

International Researcher IDs

ORCID: 0000-0002-9874-7393

Yoksis Researcher ID: 132471

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliđi (Dr), Turkey 1998 - 2005

Postgraduate, Kansas State University, Engineering Faculty, Chemical Engineering, United States Of America 1996 - 1997

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1988 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Katalizör ve katalizör desteđi olarak kullanılmak üzere Al-sütunlandırılmış kil sentezi ve karakterizasyon çalışmaları, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliđi (Dr), 2004

Postgraduate, Chemical Vapor Deposition of 3C-SiC Films on patterned SOS Substrates, Kansas State University {Kansas}, Kimya Mühendisliđi, 1997

Research Areas

Chemical Reaction Engineering, Separation Operations, Material science and engineering

Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliđi, 2020 - Continues

Lecturer PhD, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliđi, 2018 - 2020

Expert, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliđi, 2005 - 2018

Research Assistant, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliđi, 1998 - 2005

Courses

CHEMICAL ENGINEERING LABORATORY I, Undergraduate, 2021 - 2022, 2020 - 2021
LİSANS ARAŞTIRMA PROJESİ, Undergraduate, 2021 - 2022
ADSORPTION, Undergraduate, 2022 - 2023
BİTİRME ÖDEVİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
MASS TRANSFER 1, Undergraduate, 2021 - 2022
PHYSICAL CHEMISTRY, Undergraduate, 2021 - 2022, 2020 - 2021
KİMYA MÜHENDİSLİĞİ LABORATUVARI II, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020
BASIC PRINCIPLES IN CHEMICAL ENGINEERING, Undergraduate, 2022 - 2023, 2021 - 2022
HEAT TRANSFER, Undergraduate, 2021 - 2022
FLUID MECHANICS, Undergraduate, 2020 - 2021
KİMYA MÜHENDİSLİĞİ LABORATUVARI III, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Efficient removal of anti-inflammatory from solution by Fe-containing activated carbon: Adsorption kinetics, isotherms, and thermodynamics**
TOMUL F., ARSLAN Y., TURGUT BAŞOĞLU F., Babuccuoglu Y., Hai Nguyen Tran H. N. T.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.238, pp.296-306, 2019 (SCI-Expanded)
- II. **Effect of titanium source on structural properties and acidity of Ti-pillared bentonite**
TURGUT BAŞOĞLU F.
CHEMICAL PAPERS, vol.70, no.7, pp.933-945, 2016 (SCI-Expanded)
- III. **Catalytic properties and activity of copper and silver containing Al-pillared bentonite for CO oxidation**
TURGUT BAŞOĞLU F., Balci S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1106, pp.382-389, 2016 (SCI-Expanded)
- IV. **Determination of adsorptive and catalytic properties of copper, silver and iron contain titanium-pillared bentonite for the removal bisphenol A from aqueous solution**
TOMUL F., TURGUT BAŞOĞLU F., Canbay H.
APPLIED SURFACE SCIENCE, vol.360, pp.579-593, 2016 (SCI-Expanded)
- V. **PORE STRUCTURE CHARACTERIZATION OF Al-, Cr-PILLARED AND Cr-INCORPORATED Al-PILLARED CLAYS BY DFT AND DR ANALYSIS**
TURGUT BAŞOĞLU F., TOMUL F.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.3, pp.631-640, 2012 (SCI-Expanded)
- VI. **Micro-mesopore analysis of Cu²⁺ and Ag⁺ containing Al-pillared bentonite**
Basoglu F., Balci S.
APPLIED CLAY SCIENCE, vol.50, no.1, pp.73-80, 2010 (SCI-Expanded)
- VII. **Adsorption of Copper and Zinc from Aqueous Solutions by Bentonite**
Tomul F., Basoglu F.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.615-628, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of Cerium, Iron and Copper Incorporation on the Structural Properties and Activities of Ti-Pillared Bentonites**
Turgut Başoğlu F.
Cumhuriyet Science Journal, vol.39, no.2, pp.477-495, 2018 (Peer-Reviewed Journal)
- II. **Surface Properties of Metal Incorporated Al Pillared Interlayered Clay Catalysts Analyzed by Chemisorption and Infrared Analysis**

Refereed Congress / Symposium Publications in Proceedings

- I. **Acidities of Ti-pillared bentonites**
TURGUT BAŞOĞLU F.
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018
- II. **Activity test of Ti-pillared bentonites for the catalytic wet peroxide oxidation**
TURGUT BAŞOĞLU F.
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018
- III. **Micro- Mesopore Analysis of Ti-pillared Bentonites**
Turgut Başoğlu F.
4th International Conference on Environmental Science and Technology (ICOEST), Kyiv, Ukraine, 19 - 23 September 2018, pp.66
- IV. **Effects of catalytic properties of copper, iron, and/or manganese impregnated Ti-pillared bentonites on the activities for ethanol oxidation.**
Turgut Başoğlu F.
4th International Conference on Environmental Science and Technology (ICOEST), Kyiv, Ukraine, 19 - 23 September 2018, pp.65
- V. **Seryum, demir, bakır ve/ ya da manganez emdirilmiş Ti-sütunlu bentonitlerin sentezi ve yapısal özellikleri**
TURGUT BAŞOĞLU F.
13. Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7282
- VI. **Synthesis and Structural Properties of Cerium, Iron, Copper and/or Manganese Impregnated Ti-pillared Bentonites.**
TURGUT BAŞOĞLU F.
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018, pp.1342
- VII. **Catalytic properties of Ti-pillared bentonites and activity test for ethanol dehydration.**
TURGUT BAŞOĞLU F.
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018, pp.466
- VIII. **Catalytic properties of Ti-pillared bentonites and activity test for ethanol oxidation reaction.**
TURGUT BAŞOĞLU F.
The International Conference on Materials Science Mechanical and Automation Engineerings and Technology, İzmir, Turkey, 10 - 12 April 2018, pp.481
- IX. **Textural properties of cerium, iron, copper and/or manganese incorporated Ti-pillared bentonites.**
TURGUT BAŞOĞLU F.
The International Conference on Materials Science Mechanical and Automation Engineerings and Technology, İzmir, Turkey, 10 - 12 April 2018, pp.488
- X. **Effects of cerium iron copper manganese incorporation on the structural and catalytic properties of Ti pillared bentonites**
TURGUT BAŞOĞLU F.
International Conference on Engineering Technologies (ICENTE 17), Konya, Turkey, 7 - 09 December 2017, pp.86
- XI. **Synthesis of cerium, iron, copper incorporated Ti-pillared bentonites and activity in phenol oxidation**
TURGUT BAŞOĞLU F.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1359
- XII. **Seryum, demir, bakır veya manganez yerleştirilmiş Ti-sütunlu killerin sentezi ve fenolün fotokatalitik**

ıslak peroksit oksidasyonunda aktivitelere belirlenmesi

TURGUT BAŞOĞLU F.

12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 August 2016, pp.320

- XIII. **STA/Al sütunlu kil katalizörlerin yapısal özellikleri üzerine standart ve doğal kil desteklerinin etkisi**
BALCI F. S., AÇIL G., KARAEYVAZ M. C., TURGUT BAŞOĞLU F.
12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 August 2016, pp.106
- XIV. **Catalytic properties and activity of copper and silver containing Al pillared bentonite for CO oxidation**
BALCI F. S., TURGUT BAŞOĞLU F.
The International Conference on Organic Chemistry, United States Of America, 10 - 11 August 2016
- XV. **HPA doped Al pillared clay super acid catalyst synthesis and characterization**
BALCI F. S., KARAEYVAZ C., TURGUT BAŞOĞLU F.
EMN Meeting on Mesoporous Materials, prague, 13 - 17 June 2016
- XVI. **Single step synthesis of HPA loaded Al PILCs**
BALCI F. S., KARAEYVAZ C., AÇIL G., TURGUT BAŞOĞLU F.
NCC6-The 6th Catalysis Conference, 27 - 30 April 2016
- XVII. **Synthesis of Al Pillared Clay Supported HPA Super Acid Catalyst and Characterization**
BALCI F. S., TURGUT BAŞOĞLU F., KARAEYVAZ C., AÇIL G.
International Porous Powder Materials 2015, İzmir, Turkey, 20 - 25 September 2015, pp.145
- XVIII. **Effectiveness of Cu Ag containing Al pillared layered bentonite in CO removal through oxidation**
TURGUT BAŞOĞLU F., BALCI F. S.
1st International Conference on Environmental Science and Technology (ICOEST), Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, pp.27
- XIX. **Gümüş veya Bakır Emdirilmiş Ti sütunlu Killerin Sentezi ve Asitlik Değerlerinin Belirlenmesi**
TURGUT BAŞOĞLU F.
16. Ulusal Kil Sempozyumu, Çanakkale, Turkey, 2 - 05 September 2015, pp.216-217
- XX. **Sütunlu Kil Destekli HPA Süper Asit Katalizör Sentezi ve Karakterizasyonu**
KARAEYVAZ C., BALCI F. S., TURGUT BAŞOĞLU F., AÇIL G.
16. Ulusal kil sempozyumu bildiriler kitabı, Turkey, 1 - 05 September 2015, pp.127
- XXI. **Cu Ag modifiyeli Ti Sütunlu Kil Örneklerinin Gözenek Yapısının İncelenmesi**
TURGUT BAŞOĞLU F.
10.Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 September 2012, pp.68
- XXII. **Farklı Titanyum Kaynağı Kullanımının Ti Sütunlu Kil Örneğinin Gözenek Yapısına Etkisinin DFT ve DR Analizleri ile İncelenmesi**
TURGUT BAŞOĞLU F.
10.Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 September 2012, pp.69
- XXIII. **Performance copper silver or chromium incorporated aluminum pillared clays in CO oxidation**
BALCI F. S., TURGUT BAŞOĞLU F., TOMUL F.
World Congress on Water, Climate and Energy, Dublin, Ireland, 13 - 18 May 2012, pp.726-727
- XXIV. **Characterization of pore structures of Al Cr pillared clays using DFT and DR analysis**
TURGUT BAŞOĞLU F., TOMUL F.
European Clay Conference Euroclay 2011, Antalya, Turkey, 26 June - 01 July 2011, pp.354
- XXV. **Influence of the nature of titanium source on the pore structure of Ti pillared layered clays**
TURGUT BAŞOĞLU F.
European Clay Conference Euroclay 2011, Antalya, Turkey, 26 June - 01 July 2011, pp.353
- XXVI. **Test of copper or silver impregnated aluminium pillared clay in CO oxidation**
TURGUT BAŞOĞLU F., BALCI F. S.
6th World Congress on Oxidation Catalysis, Lille, FRANCE, Lille, France, 5 - 10 July 2009, pp.240-241
- XXVII. **Characterization of V Cr and Cu Incorporated Al PILCs and Test in CO Oxidation**
TURGUT BAŞOĞLU F., TECİMER A., TOMUL F., BALCI F. S.
Third Ain Shams University International Conference on Environmental Engineering ASCEE-3, Kahire, Egypt, 14 -

- 16 April 2009, pp.117-121
- XXVIII. **Pillared layered clays as catalyst and catalyst support to use in CO oxidation**
TURGUT BAŞOĞLU F., TOMUL F., BALCI F. S.
Europacat VIII, Turku, Finland, 26 - 31 August 2007, pp.1396
- XXIX. **Pore structure analysis of pillared layered clays by DFT method**
TURGUT BAŞOĞLU F., BALCI F. S.
Euroclay 2007, Aveiro, Portugal, 22 - 28 July 2007, pp.21
- XXX. **Pore structure characterization of Al PILCs as catalyst and catalyst support**
TURGUT BAŞOĞLU F., BALCI F. S.
Fourth Mediterranean Clay Meeting, Ankara, Turkey, 5 - 10 September 2006, pp.14
- XXXI. **Cu Al Karışık Sütunlu killerin FTIR Yardımı ile karakterizasyonu**
TURGUT BAŞOĞLU F., BALCI F. S.
12.Ulusal Kil Sempozyumu, Van, Turkey, 5 - 09 September 2005, pp.193-203
- XXXII. **Improvements of Catalytic Properties of the pillared layered clays and investigation of catalytic activity in CO Oxidation**
TURGUT BAŞOĞLU F., BALCI F. S.
13th International Clay Conference, Tokyo, Japan, 21 - 27 August 2005, pp.55-56
- XXXIII. **Catalytic Active Sites Determination of Al PILC and Cu impregnated Al PILC by TPD TPR Study**
TURGUT BAŞOĞLU F., BALCI F. S.
11th ICSCS, Foz do Iguacu, Brazil, 15 - 19 September 2003, pp.274-275
- XXXIV. **Al tabakalı kil ve Cu emdirilmiş Al tabakalı killerin FTIR yardımı ile karakterizasyonu**
TURGUT BAŞOĞLU F., BALCI F. S.
XI. Ulusal Kil Sempozyumu, İzmir, Turkey, 3 - 06 September 2003, pp.713-719
- XXXV. **Surface properties of the Ag Al and Cu Al pillared layered clay catalyst**
TURGUT BAŞOĞLU F., BALCI F. S., GÜLDÜR F. Ç.
EMCC-Eastern Mediterranean Chemical Engineering Conference, Ankara, Turkey, 20 - 24 May 2001, pp.138-139

Supported Projects

- Turgut Başoğlu F., Balcı F. S., Tomul F., TUBİTAK Project, Mezogözenekli silika sütunlu kil yeni nesil katalizör sentezi ve fenolün oksidasyon reaksiyonunda aktivite testi, 2015 - 2018
- Turgut Başoğlu F., Balcı F. S., TUBİTAK Project, Sütunlu kil destekli HPA süper asit katalizör sentezi ve etanol dönüşümünde testi (TÜBİTAK 114M197), 2014 - 2017
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Kimya Mühendisliği Laboratuvarlarının Deney Düzeneklerinin Yenilenmesi ve Geliştirilmesi (GAZİ ÜNV BAP06 2015 02), 2015 - 2016
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Sentez şartlarının Fe Cr karışık sütunlu kil katalizörlerin katalitik etkileri üzerine etkileri (GAZİ ÜNV BAP06 2011 34), 2011 - 2013
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Ti Sütunlu Killerin gözenek yapısının DFT yöntemiyle karakterizasyonu (GAZİ ÜNV BAP06 2010 28), 2010 - 2013
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Alüminyum ve demir ile aktifleştirilmiş MCM 41 katalizörlerinin kimyasal yapısının incelenmesi (GAZİ ÜNV BAP06 2010 52), 2010 - 2012
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Ti Sütunlu Killerin Sentezlenmesi ve gözenek yapısının incelenmesi (GAZİ ÜNV BAP06 2009 49), 2009 - 2011
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Silikat Temelli Nano Gözenekli Malzeme Sentezi Yapı ve Katalitik Özelliklerinin İncelenmesi (GAZİ ÜNV BAP18 2007 01), 2007 - 2011
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Gümüş Veya Bakır Yerleştirilmiş Al Sütunlu Killerin Asitlik Değerlerinin Amonyak Adsorpsiyonla Belirlenmesi (GAZİ ÜNV BAP06 2008 23), 2008 - 2009
- Turgut Başoğlu F., Balcı F. S., TUBİTAK Project, CO Oksidasyonu İçin Alüminyum Sütunlu Kil Katalizörlerin Sentezi Karakterizasyonu ve Reaksiyon Çalışması (TÜBİTAK106M029), 2007 - 2009
- TURGUT BAŞOĞLU F., Project Supported by Higher Education Institutions, Karbonmonoksit oksidasyonu için gümüş veya

bakır emdirilmiş Al stunlu killerin sentezi ve asitlik deęerlerinin belirlenmesi (GAZİ ÜNV BAP06 2007 16), 2007 - 2008
TURGUT BAŞOęLU F., Project Supported by Higher Education Institutions, Al Stunlu killerin gözenek yapısının incelenmesi ve krom adsorpsiyonunda test edilmesi (GAZİ ÜNV BAP06 2007 34), 2007 - 2008
TURGUT BAŞOęLU F., Project Supported by Higher Education Institutions, Katalizör ve Katalizör Desteęi Olarak Stnlandırılmıř Kil Üretimi ve Katalitik Uygulama Alanları (GAZİ ÜNV BAP06 2005 43), 2005 - 2006
Turgut Bařoęlu F., Balcı F. S., Tomul F., TUBITAK Project, Tabakalı killerin katalitik özelliklerinin geliştirilmesi ve katalitik kullanım alanlarının araştırılması (TÜBİTAK MİSAG172), 2002 - 2004

Metrics

Publication: 44

Citation (WoS): 116

Citation (Scopus): 132

H-Index (WoS): 6

H-Index (Scopus): 5