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Personal Information

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Biography

1973 Samsun doğumludur. 1994 yılında İstanbul Teknik Üniversitesi Kimya-Metalürji Fakültesi Kimya Mühendisliđi Bölümünden mezun olmuştur. Yüksek lisans ve doktora çalışmalarını da İstanbul Teknik Üniversitesi Kimya Mühendisliđi Bölümünde tamamlamıştır. Doktora çalışmaları sırasında 1 yıl Fransa'da CNRS'e bađlı Katalizör Araştırma Enstitüsü'nde bulunmuştur. 1999 yılında Araştırmacı olarak başladığı TÜBİTAK Marmara Araştırma Merkezi Eneji Enstitüsü'ndeki çalışmalarında termokimyasal dönüşüm prosesleri üzerine uzmanlık kazanmış ve bu alanda ulusal ve uluslararası projelerde koordinatör ve araştırmacı olarak görev almıştır. Katalitik kimyasal proseslerin tasarımı, gaz yıkama kolon tasarımları, sentez gazının deđerli kimyasallara ve sentetik yakıtlara dönüştürülmesi için katalizör ve proses geliştirme, gaz analizleri, kömür ve biyokütle gazlaştırma ve pirolizi, sentez gazı temizleme ve gaz şartlandırma konularında laboratuvar ve pilot tesis saha tecrübesi bulunmaktadır. 2020 yılında Başuzman Araştırmacı olarak görev aldığı TÜBİTAK Marmara Araştırma Merkezi Enerji Enstitüsü'nden ayrılarak İstanbul Teknik Üniversitesi Kimya-Metalürji Fakültesi Kimya Mühendisliđi Bölümü'nde Öğretim Üyesi olarak göreve başlamıştır.

Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliđi, Turkey 2000 - 2006

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliđi, Turkey 1995 - 1998

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliđi, Turkey 1990 - 1994

Dissertations

Doctorate, Preparation and Characterization of MFI-Supported Catalysts For The Aromatization of Benzene, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliđi, 2006

Postgraduate, Su Buharı ile Modifiye Edilen HZSM-5 Katalizörlerle MTBE Sentezi, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliđi, 1998

Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Catalysis and Catalytic Processes, Engineering and Technology

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. Multifunctional and highly active zinc titanate incorporated with copper for adsorptive hot syngas desulfurization and photocatalytic dye degradation

Tuna Ö., Bilgin Simsek E., Sariođlan A., Durak Çetin Y.

Journal of the Taiwan Institute of Chemical Engineers, vol.112, pp.388-396, 2020 (Journal Indexed in SCI)

- II. **Influence of the process conditions on the kinetic behaviour of zinc orthotitanate for syngas clean-up**
Tuna O., Simsek E. B., Sarloglan A., DurakCetin Y.
BIOMASS & BIOENERGY, vol.128, 2019 (Journal Indexed in SCI)
- III. **Development of calcium silicate-based catalytic filters for biomass fuel gas reforming**
Turan A. Z., Cetin Y., Tuna O., Sarioglan A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.3, pp.1217-1231, 2019 (Journal Indexed in SCI)
- IV. **Investigation of a novel & integrated simulation model for hydrogen production from lignocellulosic biomass**
Ersoz A., DurakCetin Y., Sarioglan A., Turan A. Z., Mert M. S., Yuksel F., FİGEN H. E., Guldal N. O., Karaismailoglu M., BAYKARA Z. S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.2, pp.1081-1093, 2018 (Journal Indexed in SCI)
- V. **Decomposition of ammonia: The effect of syngas components on the activity of zeolite HB supported iron catalyst**
Sarioglan A., Durak-Cetin Y., Okutan H., Akgun F.
Chemical Engineering Science, vol.171, pp.440-450, 2017 (Journal Indexed in SCI Expanded)
- VI. **The effect of support type on the activity of zeolite supported iron catalysts for the decomposition of ammonia**
Durak-Cetin Y., SARIOGLAN S., SARIOGLAN A., Okutan H. C.
Reaction Kinetics, Mechanisms and Catalysis, vol.118, no.2, pp.683-699, 2016 (Journal Indexed in SCI Expanded)
- VII. **Hot Gas Clean-Up with Dolomites: Effect of Gas Composition on Sulfur Removal Activity**
Ay S., Atakül H., SARIOGLAN A., AKGUN F., ISIK-GULSAC I., CETIN Y., URESIN E., ER O. O., AKSOY P.
Canadian Journal of Chemical Engineering, vol.93, no.9, pp.1643-1650, 2015 (Journal Indexed in SCI Expanded)
- VIII. **An experimental study for H₂S and CO₂ removal via caustic scrubbing system**
Uresin E., SARAÇ H. İ., Sarioglan A., Ay S., Akgun F.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.94, pp.196-202, 2015 (Journal Indexed in SCI)
- IX. **An EPR and NMR study on Mo/HZSM-5 catalysts for the aromatization of methane: Investigation of the location of the pentavalent molybdenum**
Vu Thi Thu Ha V. T. T. H., Sarioglan A., Erdem-Senatalar A., Ben Taarit Y.
Journal of Molecular Catalysis A: Chemical, vol.378, pp.279-284, 2013 (Journal Indexed in SCI Expanded)
- X. **Design studies for monolithic high temperature shift catalysts: Effect of operational parameters**
Ay S., Atakül H., OZYONUM G. N., SARIOGLAN A., ERSOZ A., AKGUN F., AKSOY P.
Fuel Processing Technology, vol.116, pp.175-181, 2013 (Journal Indexed in SCI Expanded)
- XI. **Low acidity ZSM-5 supported iron catalysts for Fischer-Tropsch synthesis**
Baranak M., GURUNLU B., SARIOGLAN A., ATAC O., Atakül H.
Catalysis Today, vol.207, pp.57-64, 2013 (Journal Indexed in SCI Expanded)
- XII. **Tar removal on dolomite and steam reforming catalyst: Benzene, toluene and xylene reforming**
Sarioglan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.10, pp.8133-8142, 2012 (Journal Indexed in SCI)
- XIII. **A 5 kW(t) catalytic burner for PEM fuel cells: Effect of fuel type, fuel content and fuel loads on the capacity of the catalytic burner**
Sarioglan A., Korkmaz O. C., Kaytaz A., Akar E., Akgun F.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.21, pp.11855-11860, 2010 (Journal Indexed in SCI)
- XIV. **Activities of MFI-Supported rhenium catalysts for the aromatization of methane: Effect of cationic form of the inorganic carrier**
Sarioglan A., Savasci O. T., Erdem-Senatalar A., Ha V. T., Sapaly G., Ben Taarit Y.
CATALYSIS LETTERS, vol.118, pp.123-128, 2007 (Journal Indexed in SCI)
- XV. **Diesel evaporation as the first step of hydrogen production**
Sarioglan A., Olgun H., Baranak M., Ersoz A., Atakul H., Ozdogan S.
International Journal of Hydrogen Energy, vol.32, no.14, pp.2895-2901, 2007 (Journal Indexed in SCI Expanded)

- XVI. **The effect of support morphology on the activity of HZSM-5-supported molybdenum catalysts for the aromatization of methane**
Sarioglan A., Savasci O. T. , Erdem-Senatarlar A., Tuel A., Sapaly G., Ben Taarit Y.
JOURNAL OF CATALYSIS, vol.246, no.1, pp.35-39, 2007 (Journal Indexed in SCI)
- XVII. **The effect of CaC₂ on the activity of MFI-supported molybdenum catalysts for the aromatization of methane**
Sarioglan A., Erdem-Senatarlar A., Savasci O., Ben Taarit Y.
Journal of Catalysis, vol.228, no.1, pp.114-120, 2004 (Journal Indexed in SCI Expanded)
- XVIII. **The effect of dealumination on the apparent and actual rates of aromatization of methane over MFI-supported molybdenum catalysts**
Sarioglan A., Erdem-Senatarlar A., Savasci O., Ben Taarit Y.
JOURNAL OF CATALYSIS, vol.226, no.1, pp.210-214, 2004 (Journal Indexed in SCI)
- XIX. **Effects of low-temperature gel aging on the synthesis of zeolite Y at different alkalinities**
Jülide Köroğlu H., Sarioglan A., Tathier M., Erdem-Senatarlar A., Tunç Savaşçı Ö.
Journal of Crystal Growth, vol.241, no.4, pp.481-488, 2002 (Journal Indexed in SCI)
- XX. **Selection of an active zeolite catalyst and kinetics of vapor phase esterification of acetic acid with ethyl alcohol**
Aliyev A., Sarijanov E., Tunç Savaşçı Ö., Mikailov R., Shakhtakhtinsky T., Sarioglan A., Poladly P., Kuliyevev A.
Studies in Surface Science and Catalysis, pp.787-794, 2002 (Journal Indexed in SCI Expanded)

Patent

Sarioglan A., Hybrid homogenous-catalytic combustion system, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: US10041668B2 , Registration in Multiple Countries, 2018, 2019

Citations

Total Citations (WOS):261

h-index (WOS):10

Non Academic Experience

TUBITAK, İleri Enerji Teknolojileri