

Res. Asst. MUSTAFA YASİN ASLAN

Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, University of Glasgow, School of Chemistry, Chemistry, Scotland 2022 - 2023

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 2012 - 2019

Postgraduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2009 - 2012

Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2004 - 2009

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Ammonia synthesis reaction under time interrupted conditions, Middle East Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), 2019

Postgraduate, Supported Ru based ammonia synthesis catalysts, Middle East Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 2012

Research Areas

Catalysis and Catalytic Processes

Academic Titles / Tasks

Research Assistant, Usak University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2019 - Continues

Research Assistant, Middle East Technical University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2011 - 2019

Research Assistant, Usak University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **In search of the bottlenecks of ammonia synthesis over Ru/Vulcan under ambient conditions**
ASLAN M. Y., Mete E., ÜNER D.
FARADAY DISCUSSIONS, vol.243, no.0, pp.164-178, 2023 (SCI-Expanded)
- II. **The effect of H₂ : N₂ ratio on the NH₃ synthesis rate and on process economics over the Co₃Mo₃N catalyst**
ASLAN M. Y., Hargreaves J. S., ÜNER D.
FARADAY DISCUSSIONS, vol.229, no.0, pp.475-488, 2021 (SCI-Expanded)
- III. **Fundamentals of hydrogen storage processes over Ru/SiO₂ and Ru/Vulcan**
ASLAN M. Y., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.34, pp.18903-18914, 2019 (SCI-Expanded)
- IV. **Enhancement of hydrogen storage capacity of multi-walled carbon nanotubes with palladium doping prepared through supercritical CO₂ deposition method**
ERÜNAL E., Ulusal F., ASLAN M. Y., GÜZEL B., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10755-10764, 2018 (SCI-Expanded)
- V. **Using spilled over hydrogen in NH₃ synthesis over supported Ru catalysts**
ÜNER D., ASLAN M. Y.
CATALYSIS TODAY, vol.272, pp.49-57, 2016 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation on Modification of Hemp Fibers with Different Chemical Treatments**
KAYA S., ASLAN M. Y., ÖNER E.
9th International Fiber and Polymer Symposium, Uşak, Turkey, 19 - 20 November 2021, vol.1, pp.30-32
- II. **Comparison of Low and High Pd Loadings on CNTs via Supercritical Fluid Deposition as Hydrogen Storage Materials**
ERÜNAL E., ULUSAL F., ODABAŞI S., ASLAN M. Y., GÜZEL B., ÜNER D.
14th International Conference on Energy Storage, Adana, Turkey, 25 - 28 April 2018
- III. **A Cost Analysis for Ammonia as a Hydrogen Carrier**
ASLAN M. Y., AKBAYRAK S., ÖZKAR S., ÜNER D.
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 21 October 2017
- IV. **Effect of Ru Particle Size on the Behavior of Hydrogen over Ru/SiO₂ Catalysts with Various Metal Loadings**
ASLAN M. Y., ÜNER D.
4th Anatolian School of Catalysis, İzmir, Turkey, 11 - 14 September 2017
- V. **Enhancement of hydrogen storage capacity of multi-walled carbon nanotubes with palladium doping prepared through supercritical CO₂ deposition method**
ERÜNAL E., ULUSAL F., ASLAN M. Y., GÜZEL B., ÜNER D.
second international hydrogen energies conference, 15 - 18 March 2017
- VI. **Hydrogen Storage Capacity of Palladium Doped Multi-Walled Carbon Nanotubes Prepared via Supercritical CO₂ Deposition Method**
ERÜNAL E., ULUSAL F., ASLAN M. Y., GÜZEL B., ÜNER D.
2nd International Hydrogen Technologies Congress, Turkey, 15 - 18 March 2017
- VII. **Hydrogen Storage Capacity of Palladium Doped Multi Wall Carbon Nanotubes Prepared via Supercritical CO₂ Deposition Method**
ERÜNAL E., ULUSAL F., KAYA D., ASLAN M. Y., GÜZEL B., ÜNER D.
2nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017
- VIII. **AMMONIA SYNTHESIS REACTION ON Ru NANOPARTICLES**
ASLAN M. Y., AKBAYRAK S., ÖZKAR S., ÜNER D.
NCC6-6th Catalysis Conference, Bursa, Turkey, 27 - 30 April 2016
- IX. **Time interrupted behavior of ammonia synthesis over ruthenium based catalysts**

ÜNER D., ASLAN M. Y., Üner N. B.

249th ACS National Meeting & Exposition, Denver, United States Of America, 22 - 26 March 2015

Metrics

Publication: 14

Citation (Scopus): 42

H-Index (Scopus): 4

Scholarships

TUBITAK 2219 - Foreign Postdoctoral Research Scholarship Program, TUBITAK, 2022 - 2023

TÜBİTAK 2211 - Yurtiçi Doktora Burs Programı, TUBITAK, 2013 - 2017

TÜBİTAK 2210 - Yurt İçi Yüksek Lisans Burs Programları, TUBITAK, 2010 - 2012

Non Academic Experience

Glasgow Üniversitesi