

Res. Asst. MERVE ÇELİK ÖZCAN

Personal Information

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Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2020 - Continues

Postgraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2017 - 2020

Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2011 - 2015

Certificates, Courses and Trainings

Data Analysis, SESAME (Ortadoğu Sinkrotron IşığI Deneysel Bilim ve Uygulamaları Uluslararası Merkezi) ÇalıştayI, TENMAK (Türkiye Enerji, Nükleer ve Maden Araştırma Kurumu), 2021

Dissertations

Postgraduate, Silika destekli katalizörler varlığında alternatif yakıt üretimi: Dimetil eter - metanol, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020

Research Areas

Chemical Engineering and Technology, Chemical Technologies, Process and Reactor Design, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Catalytic upgrading of bio-oil model mixtures in the presence of microporous HZSM-5 and γ -Al₂O₃ based Ni, Ta and Zr catalysts**
Guvenc C., Alan E., DEĞİRMENCİOĞLU P., ÇELİK ÖZCAN M., PEKMEZCİ KARAMAN B., OKTAR N.
Fuel, vol.350, 2023 (SCI-Expanded)
- Dimethyl ether from syngas and effect of CO₂ sorption on product distribution over a new bifunctional catalyst pair containing STA@SBA-15**
Ozcan M., Karaman B., OKTAR N., DOĞU T.

Articles Published in Other Journals

- I. **A review on synthesis of dimethyl ether from syngas over bifunctional/hybrid catalysts**
Çelik M., Katırcıoğlu T. Y.
Global Journal of Pure and Applied Chemistry Research, vol.7, no.1, pp.1-24, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Valuable Chemicals Production From Bio-Oil Model Mixture**
Taştan O., Çelik Özcan M., Pekmezci Karaman B., Oktar N.
7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May - 12 October 2023, pp.225-226
- II. **The synthesis of coke-resistant alumina based catalysts for the production of biofuels from bio-oil**
Alan E., Çelik Özcan M., Pekmezci Karaman B., Mürtezaoğlu K.
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Turkey, 23 - 25 November 2022, pp.1
- III. **Bio-fuel Production under Atmospheric Pressure**
Güvenç C., Pekmezci Karaman B., Çelik Özcan M., Oktar N.
4th International Conference on Applied Engineering and Natural Sciences ICAENS 2022, Konya, Turkey, 10 - 13 November 2022, pp.94
- IV. **Elektrokatalitik Amonyak Üretimi İçin Ce Katkılı LaFeO₃ Katalizörlerinin Sol-jel Yöntemi İle Hazırlanması**
Çelik Özcan M., Oktar N., Doğu D.
6. Anadolu Kataliz Okulu, İzmir, Turkey, 23 - 28 September 2022
- V. **Development of Novel Catalysts for Bio-Fuel Production**
Alan E., Pekmezci Karaman B., Çelik Özcan M., Mürtezaoğlu K.
4th Bioenergy Studies Symposium, International Symposium , Ankara, Turkey, 26 - 27 May 2022
- VI. **Performance of HZSM-5 Catalyst in Bio-Fuel Production**
Güvenç C., Pekmezci Karaman B., Çelik Özcan M., Oktar N.
4th Bioenergy Studies Symposium, Ankara, Turkey, 26 - 27 May 2022
- VII. **Synthesis of LaFeO₃ Catalyst for Electrocatalytic Ammonia Production**
Çelik Özcan M., Eryıldırım B., Öztürk O., Oktar N., Doğu D.
8th National Catalysis Conference, NCC8, Ankara, Turkey, 9 - 12 September 2021
- VIII. **Nitridation and Characterization of Yttria-Stabilized Zirconia Powder for Electrocatalytic Ammonia Production**
Öztürk O., Eryıldırım B., Çelik Özcan M., Timurkutluk B., Doğu D.
8th National Catalysis Conference, NCC8, Ankara, Turkey, 9 - 12 September 2021
- IX. **Synthesis of Mayenite Catalysts for Electrocatalytic Ammonia Production**
Eryıldırım B., Çelik Özcan M., Öztürk O., Oktar N., Doğu D.
8th National Catalysis Conference, NCC8, Ankara, Turkey, 9 - 12 September 2021
- X. **Elektrokatalitik Amonyak Üretimi İçin Mayenit Katalizörünün Sentezi Ve Karakterizasyonu**
Eryıldırım B., Çelik Özcan M., Öztürk O., Oktar N., Doğu D.
14. Ulusal Kimya Mühendisliği Kongresi (UKMK 2020), Konya, Turkey, 10 - 12 June 2021, pp.16
- XI. **Direct synthesis of dimethyl ether from syngas over silicotungstic acid containing catalyst.**
Çelik M., Pekmezci Karaman B., Oktar N., Doğu G., Doğu T.
4th International Hydrogen Technologies Congress (IHTEC 2019), Edirne, Turkey, 20 - 23 June 2019, pp.121
- XII. **Direct synthesis of dimethyl ether from syngas over SBA-15: Effect of STA incorporation onto product distribution**

Çelik M., Pekmezci Karaman B., Oktar N., Doğu G., Doğu T.

9th Eastern Mediterranean Chemical Engineering Conference (EMCC-9), Ankara, Turkey, 31 August - 02 September 2018

XIII. **Melasın Hidroliz Edilmesinin ve Melas Derişiminin Saccharomyces cerevisiae ile Etil Alkol Üretimine Etkisinin İncelenmesi**

Okur M., Çelik M., Erođlu N., Çakmak Y.

18th National Biotechnology Congress, Konya, Turkey, 18 - 19 December 2015, pp.101

Scientific Research / Working Group Memberships

Materials For Catalysis And Fuel Cells (Mfc) Research Group, Gazi University, Turkey, <https://dorukd.wixsite.com/mfc>, 2019 - Continues

Metrics

Publication: 17

Citation (WoS): 10

Citation (Scopus): 12

H-Index (WoS): 1

H-Index (Scopus): 1

Scholarships

2250-Lisansüstü Bursları Performans Programı, TÜBİTAK, 2022 - 2022

Awards

Çelik M., Next Generation BioJet and Biobunker Fuel Production from Sustainable BioResidues, Horizon2020, June 2020