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International Researcher IDs

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Publons / Web Of Science ResearcherID: AHE-13790-2022

ScopusID: 57195637148

Yoksis Researcher ID: 321913

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 2017 - 2023

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2015 - 2017

Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2010 - 2014

Dissertations

Doctorate, Fluoroboric Acid Doped Polymer Blend Based Membrane Synthesis For PEM Fuel Cells, Gazi University, Fen Bilimleri Enstitüsü, 2023

Postgraduate, Al-Ti-Ce katalizörlerinin hazırlanması ve H₂S'xxün seçici katalitik oksidasyonu ile elementel kükürt eldesi için aktivite testleri, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 2017

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2024 - Continues

Lecturer, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Preparation and Characterization of SPEEK-PVA Blend Membrane Additives with Colloidal Silica for Proton Exchange Membrane Fuel Cell**
YAĞIZATLI Y., Ulaş B., ŞAHİN A., AR İ.
Journal of Polymers and the Environment, vol.32, no.9, pp.4699-4715, 2024 (SCI-Expanded)
- II. Synthesized and characterized high-performance and low-cost zirconium phosphate-additive sulfonated polyethersulfone membranes for PEMFC**
YAĞIZATLI Y., ŞAHİN A., AR İ.

Polymers for Advanced Technologies, vol.35, no.6, 2024 (SCI-Expanded)

- III. **Novel Fluoroboric Acid Additive for Blend Membrane to be Used in PEM Fuel Cell, Characterization Studies, and Performance Test**
Yağızatlı Y., Ar İ.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.32, no.2, pp.2-23, 2024 (SCI-Expanded)
- IV. **Effect of thermal crosslinking process on membrane structure and PEM fuel cell applications performed with SPEEK-PVA blend membranes**
YAĞIZATLI Y., ŞAHİN A., AR İ.
International Journal of Hydrogen Energy, vol.47, no.95, pp.40445-40461, 2022 (SCI-Expanded)
- V. **Investigation of sulfonation reaction kinetics and effect of sulfonation degree on membrane characteristics for PEMFC performance**
YAĞIZATLI Y., Ulaş B., ŞAHİN A., AR İ.
IONICS, vol.28, no.5, pp.2323-2336, 2022 (SCI-Expanded)
- VI. **Highly durable phosphonated graphene oxide doped polyvinylidene fluoride (PVDF) composite membranes**
Cali A., YAĞIZATLI Y., ŞAHİN A., AR İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35171-35179, 2020 (SCI-Expanded)
- VII. **Improved fuel cell properties of Nano-TiO₂ doped Poly(Vinylidene fluoride) and phosphonated Poly(Vinyl alcohol) composite blend membranes for PEM fuel cells**
Yağızatlı Y., Ulaş B., Cali A., Şahin A., Ar İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35130-35138, 2020 (SCI-Expanded)
- VIII. **Effect of Preparation Technique on the Performance of Ni and Ce Incorporated Modified Alumina Catalysts in CO₂ Reforming of Methane**
ARBAĞ H., TAŞDEMİR H. M., YAĞIZATLI Y., Kucuker M., YAŞYERLİ S.
CATALYSIS LETTERS, vol.150, no.11, pp.3256-3268, 2020 (SCI-Expanded)
- IX. **A new sol-gel route alumina for selective oxidation of H₂S to sulphur**
TAŞDEMİR H. M., YAĞIZATLI Y., YAŞYERLİ S., YAŞYERLİ N., Dogu G.
CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.97, no.12, pp.3125-3137, 2019 (SCI-Expanded)
- X. **The Catalytic Performance of Sol-Gel Alumina Supported Ti-Ce Catalysts for H₂S Selective Oxidation to Elemental Sulfur**
TAŞDEMİR H. M., YAĞIZATLI Y., YAŞYERLİ S., YAŞYERLİ N.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.17, no.5, 2019 (SCI-Expanded)
- XI. **Ce-O catalysts for elemental sulfur production via selective catalytic oxidation of H₂S Highlights**
TAŞDEMİR H. M., YAĞIZATLI Y., YAŞYERLİ S., YAŞYERLİ N., Dogu G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.3, pp.831-841, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Proton Değişim Membranı olarak SPEEK-PVA ve SPEEK-PVA-Borik Asit Karışım Membranlar üzerine TEOS Katkısının Etkisi**
Yağızatlı Y., Şahin A., Ar İ.
Van Yüzüncü Yıl Üniversitesi Mühendislik Fakültesi Dergisi, vol.1, no.1, pp.25-36, 2023 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Oxygen Reduction Reaction; Fuel Cells**
Yağızatlı Y., Açıl G., Ulaş B., Demir Kıvrak H.
in: Atomically Precise Electrocatalysts for Electrochemical Energy Applications, Anuj Kumar, Ram K. Gupta, Editor,

Springer Nature, Zug, pp.111-128, 2024

II. Metal-free catalysts for fuel cell applications

Ulaş B., Yağızatlı Y., Demir Kıvrak H.

in: Carbon-Based Metal Free Catalysts, Abdullah Mohammed Ahmed Asiri, Anish Khan, Showkat Ahmad Bhawani, Bahaa Mohamed Mahmoud Abu-Zied, Suchart Siengchin, Huriya Džudžević-Čančar, Editor, Elsevier Science, Oxford/Amsterdam, Oxford, pp.67-109, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Development of Nickel-Based Bimetallic Anode Catalysts for Direct Ethanol Fuel Cells**
Tiren F. N., Yağızatlı Y., Ar İ.
International Conference on Advanced Materials Science & Engineering and High Tech Devices (ICMATSE 2024), Ankara, Turkey, 24 - 26 October 2024, pp.1-5
- II. **PEM YAKIT PİLLERİNDE KULLANILMAK ÜZERE LUDOX KATKILI SPEEK-PVA KARIŞIM MEMBRANLARININ SENTEZİ VE KARAKTERİZASYON ÇALIŞMALARI**
Yağızatlı Y., Ulaş B., Şahin A., Ar İ.
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.1-4
- III. **Alumina as catalyst in H₂S selective oxidation: Effect of calcination temperature**
Yağızatlı Y., Taşdemir H. M., Yaşyerli S., Yaşyerli N., Doğu G.
8th National Catalysis Conference (NCC-8), 9 - 12 September 2021, pp.1
- IV. **Effect of Thermal Crosslinking Process on Membrane Structure and PEM Fuel Cell Applications Performed with SPEEK-PVA Blend Membranes**
Yağızatlı Y., Şahin A., Ar İ.
3rd International Hydrogen Energy Congress & Exhibitions, Ankara, Turkey, 14 - 16 July 2021, pp.21-28
- V. **High performing and Low Cost Structured Membranes Based on Sulfonated Polyether Sulfone and Zirconium Phosphate for Proton Exchange Membrane Fuel Cell**
YAĞIZATLI Y., ŞAHİN A., AR İ.
International Conference on Advanced Materials Science Engineering and High Tech Device Applications (ICMATSE 2020), 2 - 04 October 2020
- VI. **Improved Fuel Cell Properties Of Nano-TiO₂ Doped Polyvinylidene Fluoride and Phosphonated Poly(Vinyl Alcohol) Composite Blend Membranes For PEM Fuel Cells**
YAĞIZATLI Y., ULAŞ B., ÇALI A., ŞAHİN A., AR İ.
International Hydrogen Technologies Congress, 20 - 23 September 2019
- VII. **Highly Durable Phosphonated Graphene Oxide Doped Polyvinylidene Fluoride (PVDF) Composite Membranes**
ÇALI A., YAĞIZATLI Y., ŞAHİN A., AR İ.
International Hydrogen Technologies Congress, 20 - 23 June 2019
- VIII. **The Effect of Water Vapor on Catalytic Activity of Sol-Gel Alumina in Selective Oxidation of H₂S to Elemental Sulfur**
YAĞIZATLI Y., TAŞDEMİR H. M., DOĞU G., YAŞYERLİ N., YAŞYERLİ S.
International Porous Powder Materials Symposium and Exhibition, 12 - 15 September 2017
- IX. **Vanadyum Oksit ve Alümina Destekli Vanadyum Oksit Katalizörlerinin H₂S'ün Seçici Oksidasyonundaki Aktiviteleri**
YAĞIZATLI Y., TAŞDEMİR H. M., TARI E., GÜZELER S., YAŞYERLİ S., YAŞYERLİ N.
Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017
- X. **Elementel Kükürt Üretimi için Tek-Kap ve Emdirme Yöntemiyle Hazırlanmış Ti-Ce-Al Katalizörlerinin Karşılaştırılması**
YAĞIZATLI Y., TAŞDEMİR H. M., DOĞU G., YAŞYERLİ N., YAŞYERLİ S.
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XI. **Selective Oxidation of H₂S over MCM-41, Al-MCM-41 and Al₂O₃ Supported Ti-Ce Catalysts**

TAŞDEMİR H. M., YAĞIZATLI Y., YAŞYERLİ N., DOĞU G., YAŞYERLİ S.

International Congress on Green Chemistry and Sustainable Engineering, 20 - 22 July 2016

XII. Effect of Preparation Method on Catalytic Activity of Ti-Ce-Al Oxides for Sulfur Production

YAĞIZATLI Y., TAŞDEMİR H. M., DOĞU G., YAŞYERLİ N., YAŞYERLİ S.

International Congress on Green Chemistry and Sustainable Engineering, 20 - 22 July 2016

XIII. Effect of Ti-Ce Content on the Catalytic Activity of Alumina Supported Catalysts in Selective Oxidation of H₂S,

TAŞDEMİR H. M., YAĞIZATLI Y., YAŞYERLİ S., YAŞYERLİ N., DOĞU G.

NCC6- 6th Catalysis Congress, 27 - 30 April 2016

XIV. Comparison of Ce Incorporated V, Fe And Ti Catalysts for Selective Oxidation of H₂S To Elemental Sulfur

TAŞDEMİR H. M., YAĞIZATLI Y., DOĞU G., YAŞYERLİ N., YAŞYERLİ S.

International Porous Powder Materials, 15 - 18 September 2015

XV. H₂S'ün Seçici Katalitik Oksidasyonu için Hazırlanan CeO₂ Katalizörünün Kalsinasyon Sıcaklığının Aktiviteye Etkisi

TAŞDEMİR H. M., YAĞIZATLI Y., YAŞYERLİ S., YAŞYERLİ N., DOĞU G.

27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015

XVI. Performance of Ti-Ce Catalysts For Selective Oxidation of H₂S to Elemental Sulfur

TAŞDEMİR H. M., YAĞIZATLI Y., DOĞU G., YAŞYERLİ N., YAŞYERLİ S.

International Conference on Chemical and Biochemical Engineering, 20 - 22 July 2015

Supported Projects

YAĞIZATLI Y., ŞAHİN A., Project Supported by Higher Education Institutions, Doğrudan Gliserol Yakıt Pilleri için Aktif Karbon Destekli Ni bazlı Alaşım Elektrokatalizörlerin Geliştirilmesi, 2024 - Continues

BALBAŞI M., ÇALI A., ŞAHİN A., YAĞIZATLI Y., Project Supported by Higher Education Institutions, Sülfonasyon Derecesinin Ticari Borik Asit Katkılı Polivinil Alkol Membranı ve Proton Değişim Membranlı Yakıt Pilleri Üzerindeki Etkileri, 2022 - 2024

ŞAHİN A., YAĞIZATLI Y., ULAŞ B., ÇALI A., AR İ., Project Supported by Higher Education Institutions, Polieter eter keton Bazlı Kompozit Membran Geliştirilmesi, 2021 - 2023

Yaşyerli N., Yaşyerli S., Taşdemir H. M., Yağızatlı Y., TUBITAK Project, H₂S ün Seçici Katalitik Oksidasyonu ile Elementel Kükürt Eldesi için Alümina Destekli Ti Ce Katalizörleri, 2014 - 2017

Scientific Refereeing

ACS OMEGA, SCI Journal, September 2024

JOURNAL OF MEMBRANES SCIENCE, SCI Journal, August 2024

FUEL, SCI Journal, August 2024

ENERGY TECHNOLOGY, SCI Journal, May 2024

Chimica Techno Acta, Other Indexed Journal, May 2024

PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, SCI Journal, February 2024

PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, SCI Journal, December 2023

FUEL, SCI Journal, November 2023

POLYMER ENGINEERING AND SCIENCE, SCI Journal, May 2023

FUEL, SCI Journal, October 2021

Metrics

Publication: 30

Citation (WoS): 144

Citation (Scopus): 162

H-Index (WoS): 6

H-Index (Scopus): 6

Scholarships

TÜBİTAK 2211-C Yurt İçi Öncelikli Alanlar Doktora Burs Programı, TÜBİTAK, 2019 - 2023

YÖK 100/2000 Hidrojen ve Yakıt Pilleri, YOK, 2018 - 2022

TÜBİTAK 1001-114M185 kodlu Proje, TÜBİTAK, 2014 - 2016