

Lect. PhD SİLVER GÜNEŞ

Personal Information

Email: silver@gazi.edu.tr

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

International Researcher IDs

ScholarID: Vmerp8YAAAAJ

ORCID: 0000-0001-7608-3779

Publons / Web Of Science ResearcherID: AHB-6581-2022

ScopusID: 36833704500

Yoksis Researcher ID: 133525

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 2008 - 2016

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2005 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, PEM yakıt hücresi katotunda oksijen indirgenme reaksiyonu hızının geliştirilmesi ve mekanizmasının incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), 2015

Postgraduate, PEM yakıt hücresi katodunda kullanılmak üzere platin bazlı üçlü katalizörlerin sentezi, karakterizasyonu ve elektrokatalitik özelliklerinin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2008

Research Areas

Chemical Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2017 - Continues

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, -, 2005 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- Bimodal boron-doped ordered mesoporous carbons as oxygen reduction electrocatalysts synthesized in water/acetic acid medium**
GÜNEŞ S.

JOURNAL OF POROUS MATERIALS, 2024 (SCI-Expanded)

- II. **The effect of solvent type and composition on the synthesis of boron-doped ordered mesoporous carbons**
GÜNEŞ S.
Microporous and Mesoporous Materials, vol.378, 2024 (SCI-Expanded)
- III. **Preparation of PtAg/C catalysts for the oxygen reduction in PEM fuel cells: comparison of ultrasonical and mechanical methods as the catalyst ink dispersion technique**
Aras N., Güldür F. Ç., Güneş S.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.48, no.12, pp.15895-15902, 2023 (SCI-Expanded)
- IV. **Investigation of the oxygen reduction kinetics and mechanism on ordered mesoporous carbon supported Pt based catalysts**
Güneş S., Güldür F. Ç.
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.2, pp.530-541, 2022 (SCI-Expanded)
- V. **PERFORMANCE AND EMISSION CHARACTERISTICS OF PYRIDINE AND ISOBUTANOL ADDED GASOLINE-ETHANOL-WATER BLENDS IN A SINGLE CYLINDER SI GASOLINE ENGINE**
Garayev A., Gune S., GÜLDÜR F. Ç.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.41, no.1, pp.11-21, 2021 (SCI-Expanded)
- VI. **Synthesis of OMC supported Pt catalysts and the effect of the metal loading technique on their PEM fuel cell performances**
GÜNEŞ S., GÜLDÜR F. Ç.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.207, no.7, pp.961-971, 2020 (SCI-Expanded)
- VII. **Synthesis of large pore sized ordered mesoporous carbons using triconstituent self-assembly strategy under different acidic conditions and ratios of carbon precursor to structure directing agent**
GÜNEŞ S., Guldur C.
COLLOID AND POLYMER SCIENCE, vol.296, no.4, pp.799-807, 2018 (SCI-Expanded)
- VIII. **Carbon supported Pt-based ternary catalysts for oxygen reduction in PEM fuel cells**
Guldur C., GÜNEŞ S.
CATALYSIS COMMUNICATIONS, vol.12, no.8, pp.707-711, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Synthesis of reduced graphene oxide coated and molybdenum deposited nickel foam electrode in order to be used at the anode of the microbial fuel cell**
Akyazi H., GÜLDÜR F. Ç., GÜNEŞ S.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)
- II. **Characterization and oxygen reduction activities of boron-doped ordered mesoporous carbons synthesized by soft-template method**
Türker T., Güldür F. Ç., Güneş S.
BOR DERGISİ, vol.9, no.3, pp.104-110, 2024 (Peer-Reviewed Journal)
- III. **Performance Evaluation of PtAgFe/C as a Cathode Catalyst in PEM Fuel Cell**
Guldur C., GÜNEŞ S.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.1, pp.42-51, 2018 (ESCI)
- IV. **Ulusal Veritabanı ve Atıf İndeksi Kurulumu için Stratejiler, Problemler ve Çözüm Önerileri**
SAĞIROĞLU Ş., DENER M., GÜNEŞ S., GÜLLÜ A., TATAROĞLU A., ORMAN A., SİNANÇ D., TERZİ R., ŞAHİN H., ÇETİNYOKUŞ S., et al.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.3, no.2, pp.501-512, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Different Solvents in the Synthesis of Boron Doped Ordered Mesoporous Carbons**
Güneş S.
NANOTR-16, Ankara, Turkey, 5 - 08 September 2022, pp.203
- II. **Synthesis of Boron Doped Ordered Mesoporous Carbons For Increasing Oxygen Reduction Reaction Performance**
Güldür F. Ç., Türker T., Güneş S.
Eastwest Chemistry Conference, Ankara, Turkey, 7 - 09 October 2021, pp.61-62
- III. **Pt and Pd based quaternary metal catalysts for the cathode in PEM fuel cel**
Güldür F. Ç., Gümüş E., Güneş S.
IHTEC 2021 - 5th International Hydrogen Technologies Congress, Niğde, Turkey, 26 - 28 May 2021, pp.206-208
- IV. **Oxygen Reduction Kinetics in the Ordered Mesoporous Carbon Supported Pt Catalysts**
GÜNEŞ S., GÜLDÜR F. Ç.
4th International Hydrogen Technologies Congress (IHTEC-2019), 20 - 23 June 2019
- V. **Effect of Pyridine and Isobuthanol as Additives on the Performance of Gasoline-Ethanol-Water Blends in the Internal Combustion Engines**
GÜLDÜR F. Ç., Garayev A., GÜNEŞ S.
ITWCCST 2018 4TH INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, 7 - 10 September 2018
- VI. **Investigation of the Emission Levels of Gasoline-Ethanol Blends with Additives in the Internal Combustion Engines**
GÜLDÜR F. Ç., GARAYEV A., GÜNEŞ S.
ICINSE-ITWCCST 2018, 7 - 10 September 2018
- VII. **Ordered Mesoporous Carbons (OMC) Synthesized by Self-assembly Method and the Effects of Acidity and Carbon Source to Surfactant Ratio**
GÜNEŞ S., GÜLDÜR F. Ç.
IHTEC-2018, 15 March - 18 August 2018
- VIII. **Preparation of Pt/OMC Catalysts by Different Loading Strategies**
GÜNEŞ S., GÜLDÜR F. Ç.
1st International Conference on Advanced Materials and Manufacturing Technologies, 25 - 27 October 2017
- IX. **Development of Ordered Mesoporous Carbon (OMC) supported catalysts in order to be used in PEM fuel cell**
GÜLDÜR F. Ç., GÜNEŞ S.
NCC-5, Turkey, 23 - 26 April 2014
- X. **Synthesis of Ordered Mesoporous Carbons in Order to Be Used at the Cathode of the PEM Fuel Cell**
GÜLDÜR F. Ç., GÜNEŞ S.
PPM-213, 3 - 06 September 2013
- XI. **PEM Yakıt Hücresinde Katalizör Destek Malzemesi Olarak Kullanılmak üzere Düzenli Mezogözenekli Karbon Destek Sentezi**
GÜLDÜR F. Ç., GÜNEŞ S., GÖKTAŞ Y.
UKMK-10, Turkey, 3 - 06 September 2012
- XII. **Synthesis of Ordered Mesoporous Carbon Supports as Electrode Materials in PEM Fuel Cells**
GÜLDÜR F. Ç., GÜNEŞ S., GÖKTAŞ Y.
ANQUE-ICCE, 24 - 27 June 2012
- XIII. **PEM Fuel Cell as a Clean Energy Supply Carbon Supported Platinum Multimetallic Catalysts Used at the Cathode of the PEM Fuel Cell**
GÜLDÜR F. Ç., GÜNEŞ S., ARAS N.
IWA-World Congress on Water, Climate and Energy, 13 - 18 May 2012
- XIV. **Performance Analysis of Pt Ternary Catalysts in a PEM Single Cell**
GÜLDÜR F. Ç., GÜNEŞ S.

EMCC-7, 27 April - 01 May 2012

- XV. **PEM yakıt hücresi katotunda kullanılmak üzere platin çok-metalli katalizörlerin sentezi**
GÜNEŞ S., GÜLDÜR F. Ç., ARAS N.
NCC-4, Turkey, 21 - 24 March 2012
- XVI. **PEM yakıt hücresi anotunda kullanılmak üzere platinin ikili katalizörlerinin karakterizasyonu ve CO toleransının incelenmesi**
GÜLDÜR F. Ç., KARÇIÇEĞİ D., GÜNEŞ S.
NCC-3, Turkey, 28 April - 01 May 2010
- XVII. **Carbon supported Pt-based ternary catalysts for oxygen reduction in PEM fuel cells**
GÜNEŞ S., GÜLDÜR F. Ç.
HYPOTHESIS VIII Conference, 24 April 2009 - 27 March 2010
- XVIII. **Carbon supported PtAgFe/C catalysts prepared by low temperature borohydride reduction to be used at the cathode of PEM fuel cells**
GÜLDÜR F. Ç., GÜNEŞ S.
EMCC-6, 7 - 12 March 2010
- XIX. **Synthesis, characterization and investigation of electrocatalytical properties of platinum ternary alloys in order to be used at the cathode of the PEM fuel cell**
GÜNEŞ S., GÜLDÜR F. Ç.
EMCC-5, 24 - 29 May 2008

Activities in Scientific Journals

Gazi University Journal of Science Part A: Engineering and Innovation, Committee Member, 2023 - Continues

Metrics

Publication: 35

Citation (WoS): 27

Citation (Scopus): 26

H-Index (WoS): 3

H-Index (Scopus): 3

Non Academic Experience

Gazi Üniversitesi