

Prof. HÜLYA DEMİRÖREN

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Firat University, Faculty Of Technical Education, Department Of Metal Education, Turkey 1998 - 2004

Postgraduate, Firat University, Institute Of Science, Makina Mühendisliği, Turkey 1995 - 1998

Undergraduate, Firat University, Faculty Of Engineering, Makina Mühendisliği, Turkey 1989 - 1994

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Occupational Health and Safety, İş Sağlığı ve Güvenliği Uzmanlığı, Çalışma Bakanlığı, 2012

Dissertations

Doctorate, Ferritik Paslanmaz Çeliğin Korozyon Davranışına Karbür Yapıcı Alaşım Elementlerinin Etkilerinin İncelenmesi, Firat University, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, 2005

Postgraduate, Scotch-Yoke Mekanizmalarının Dinamik Analizi, Firat University, Mühendislik Fakültesi, Makina Mühendisliği, 1998

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Corrosion and Corrosion Protection, Biomaterials, Metallic Materials, Engineering and Technology

Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği, 2020 - Continues

Associate Professor, Firat University, Faculty Of Technology, Metalurji Ve Malzeme Mühendisliği, 2015 - 2020

Academic and Administrative Experience

Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği, 2021 - Continues

Director of Vocational School, Canakkale Onsekiz Mart University, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of High-Chromium Ferrous-Based TiC Composite Coating on Microstructural and Corrosion Properties of Steels**
Buytoz S., DEMİRÖREN H., KAYA E.
Transactions of the Indian Institute of Metals, vol.76, no.8, pp.2201-2210, 2023 (SCI-Expanded)
- II. **Electrochemical Synthesis of High Chromium Fe-Based TiC Composite Coating**
DEMİRÖREN H., Buytoz S.
Protection of Metals and Physical Chemistry of Surfaces, vol.58, no.1, pp.109-118, 2022 (SCI-Expanded)
- III. **Electrochemical Synthesis of High Chromium Fe-Based TiC Composite Coating**
Demiroren H., Buytoz S.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.56, pp.109-118, 2022 (SCI-Expanded)
- IV. **AN APPROXIMATION TO DETERMINE CORROSION AND MECHANICAL BEHAVIOR OF TI-BASED ALLOYS**
Yilmaz Y., DEMİRÖREN H.
SURFACE REVIEW AND LETTERS, vol.28, no.3, 2021 (SCI-Expanded)
- V. **An electrochemical approach to evaluating surface coatings**
DEMİRÖREN H., Buytoz S.
International Journal of Surface Science and Engineering, vol.15, no.4, pp.294-306, 2021 (SCI-Expanded)
- VI. **EFFECT OF HARDENING CONDITIONS ON ALUMINUM ALLOY MICROSTRUCTURE**
Demiroren H.
METAL SCIENCE AND HEAT TREATMENT, vol.54, pp.294-297, 2012 (SCI-Expanded)
- VII. **Electrochemical synthesis of ferritic stainless steels alloyed with 1 wt-%Ti, V and Nb in sulphuric acid solution**
Demiroren H., Aksoy M.
CORROSION ENGINEERING SCIENCE AND TECHNOLOGY, vol.44, no.5, pp.347-351, 2009 (SCI-Expanded)
- VIII. **Electrochemical Behavior of Ferritic Stainless Steel Alloyed with 1 wt% Ti, V, and Nb in Hydrochloric Acid Solution**
Demiroren H., Aksoy M.
CORROSION, vol.65, no.9, pp.624-630, 2009 (SCI-Expanded)
- IX. **The corrosion characterization of a ferritic stainless steel with Mo addition in H₂SO₄ and HCl acid solutions**
Demiroren H., Aksoy M., Yildiz T., Buytoz S.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.45, no.5, pp.628-634, 2009 (SCI-Expanded)
- X. **Corrosion behavior of ferritic stainless steel alloyed with different amounts of niobium in hydrochloric acid solution**
Demiroren H.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.39, no.6, pp.761-767, 2009 (SCI-Expanded)
- XI. **Effect of vanadium and heat treatment on the corrosion behavior of ferritic stainless steel**
Eren H., Aksoy M., Korkut M. H., ERBİL M.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.45, no.5, pp.225-241, 2008 (SCI-Expanded)
- XII. **Microstructural and microhardness characteristics of gas tungsten arc synthesized Fe-Cr-C coating on AISI 4340**
BUYTOZ S., YILDIRIM M., Eren H.

Articles Published in Other Journals

- I. **Optimization of Low-Calorific Coal Application at Different Loads in 600 MW Supercritical Thermal Power Plant with the PROMETHEE-GAIA Method**
Emir A., Motorcu A. R., Demirören H.
Journal of advanced research in natural and applied sciences (Online), vol.10, no.3, pp.542-559, 2024 (Peer-Reviewed Journal)
- II. **Development and Characterization of Polylactic Acid (Pla)**
Akduman B., Demirören H.
International Journal Of Engineering And Computer Science, vol.13, no.08, pp.26310-26316, 2024 (Peer-Reviewed Journal)
- III. **Electrochemical overview of the corrosion behavior of Titanium-based biomaterials**
DEMİRÖREN H., Yılmaz Y.
Materials&Biomaterials Science, vol.4, no.1, 2021 (Peer-Reviewed Journal)
- IV. **Titanyumlu Ferritik Paslanmaz Çeliğin 0.1M H₂SO₄ ve 0.3 M HCl Çözeltilerinde Korozyon Davranışına Homojenleştirme İşleminin Etkisi**
DEMİRÖREN H., Aksoy M., Erbil M.
Korozyon, vol.14, pp.20-23, 2006 (Peer-Reviewed Journal)
- V. **Niyobyum İlave edilmiş Ferritik paslanmaz çeliğin 0.1 M H₂SO₄ çözeltisindeki korozyon davranışının incelenmesi**
DEMİRÖREN H., Aksoy M.
Korozyon, vol.13, pp.22-27, 2005 (Peer-Reviewed Journal)

Books

- I. **Encyclopedia of Aluminum and Its Alloys**
Demirören H.
CRC, New York , New York, 2018
- II. **Heat Treatment:Theory, Techniques and Applications**
Demirören H., Aksoy M.
NOVA Science Publishers Inc. , New York, 2009

Papers Published in Refereed Scientific Meetings

- I. **POLYLACTIC ACID (PLA) THAT CAN BE USED AS A BIOMATERIAL PRODUCTION AND CHARACTERIZATION**
Demirören H., Akduman B.
5.ULUSLARARASI PALANDÖKEN BİLİMSEL ÇALIŞMALAR KONGRESİ, Erzurum, Turkey, 18 - 19 March 2022, pp.954-955
- II. **Biyomalzeme Sektöründe Kullanılan Titanyum ve Alaşımları**
Yılmaz Y., Avcı B., DEMİRÖREN H.
4th International Symposium on Innovative Approaches in Engineering and Natural Sciences, Samsun, Turkey, 22 - 24 October 2019, pp.12
- III. **Nükleer Tesislerde Korozyon**
DEMİRÖREN H., Yaylı A.
International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 30 November - 02

December 2018, pp.1130-1141

- IV. **The Electrochemical Synthesis Of Ferritic Stainless Steel Alloyed With Niobium In Sulphuric Acid Solution**
DEMİRÖREN H.
14.Uluslararası Korozyon Sempozyumu, Bayburt, Turkey, 05 October 2016 - 07 October 2016, pp.632-638
- V. **Korozyonun Sebep Olduğu İş Kazaları**
DEMİRÖREN H., Sinanoğlu T.
13.Uluslararası Korozyon Sempozyumu, Elazığ, Turkey, 15 - 17 October 2014, pp.117-120
- VI. **Ni-Cr-Mo Ve Co-CrMo Diş Protez Metallerinin Korozyon Davranışının İncelenmesi**
Aksoy M., DEMİRÖREN H., Turhan D., Altundoğan S.
13.Uluslararası Korozyon Sempozyumu, Elazığ, Turkey, 15 - 17 October 2014, pp.134-139
- VII. **FeCrC Takviyeli Al Metal Matrisli Kompozitlerin Korozyon Davranışları Üzerine Bir Çalışma**
DEMİRÖREN H., Buytoz S.
10. Uluslararası Korozyon Sempozyumu, Adana, Turkey, 1 - 04 November 2006, pp.284-289
- VIII. **Al- Si Ötektik Esaslı Alaşımda Değişen Silisyum Oranının Korozyon Direncine Etkisi**
DEMİRÖREN H., Korkut M.
10. Uluslararası Korozyon Sempozyumu, Adana, Turkey, 1 - 04 November 2006, pp.249-256

Supported Projects

DEMİRÖREN H., Tezcan O., Project Supported by Higher Education Institutions, NiTi Şekil Hafızalı Alaşımların Mekanik ve Korozyon Özelliklerinin Ag Alaşım ile Geliştirilmesi, 2024 - Continues

DEMİRÖREN H., Akduman B., Project Supported by Higher Education Institutions, Biyomalzeme Olarak Kullanılabilecek Polilaktik AsitPLAın Üretimi ve Karakterizasyonu, 2022 - 2023

Demirören H., Yazar M., Demir Ü., Demirselçuk B., Erasmus Project, Organize Sanayi Bölgelerinde (OSB) OSB Gençlik Merkezi Kurulması Yoluyla Çalışan Gençlerin Çalışma Koşullarının ve Sosyal Yaşamlarının İyileştirilmesi Projesi, 2020 - 2022

DEMİRÖREN H., Project Supported by Higher Education Institutions, Demir esaslı TiC kompozit kaplamının korozyon davranışına karbürlerin etkisinin incelenmesi, 2020 - 2021

DEMİRÖREN H., Project Supported by Other Official Institutions, 3- Biyomalzemelerin korozyon dirençlerinin geliştirilmesi, 2012 - 2018

Non Academic Experience

ALYA İş sağ.İş Güv. Biomalz.Ürt. Ltd.Şti, Yönetici