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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-1620-2020

ScopusID: 55936592500

Yoksis Researcher ID: 26567

Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Metallurgical and Materials Engineering, Turkey 2015 - 2020

Postgraduate, Eskisehir Osmangazi University, Metalurji Enstitüsü, Metallurgical Engineering, Turkey 2011 - 2015

Undergraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 2005 - 2010

Foreign Languages

German, A2 Elementary

English, C1 Advanced

Dissertations

Doctorate, Effect of cryogenic treatment on microstructural and mechanical properties of alloyed spring steels, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü, 2020

Postgraduate, Sıcak haddelenmiş AZ91 magnezyum alaşımı üzerine uygulanan akımsız Ni-P-W kaplamanın korozyon ve aşınma özellikleri, Eskisehir Osmangazi University, 2015

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Mechanical Properties, Corrosion and Corrosion Protection

Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2023 - Continues

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2011 - 2023

Academic and Administrative Experience

Deputy Head of Department, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2023 - Continues

Courses

Metallurgical Thermodynamics I, Undergraduate, 2024 - 2025, 2023 - 2024

ENGINEERING MATERIALS (A), Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

ENGINEERING MATERIALS(B), Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

METALURJİ VE MALZEME MÜHENDİSLİĞİNDE TASARIM(A), Undergraduate, 2024 - 2025, 2023 - 2024

INVESTIGATIONS OF THE MECHANICAL BEHAVIOR OF METALS(A), Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

METALLURGICAL THERMODYNAMICS II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

METALLOGRAPHY, Undergraduate, 2022 - 2023, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of MoS₂/Graphene Hetero-Film Photocatalyst and Li-Oxygen Battery Application**
Çelt A. C., Çayırılı Can M., Özden R. C., Lökçü E., Anık M.
CHEMELECTROCHEM, pp.1-6, 2024 (SCI-Expanded)
- II. **Synthesis of N-Doped Graphene Photo-Catalyst for Photo-Assisted Charging of Li-Ion Oxygen Battery**
Kaçar N., LÖKÇÜ E., ÇAYIRLI M., ÖZDEN R. C., COŞKUN Ş., TOPARLI Ç., ÇELİKÜREK İ., ANIK M.
Global Challenges, vol.8, no.1, 2024 (SCI-Expanded)
- III. **Photocatalytic Efficiency of g-C₃N₄/Graphene Nanocomposites in the Photo-Assisted Charging of the Li-Ion Oxygen Battery**
Kaçar N., Çayırılı M., Özden R. C., Lökçü E., Anık M.
ACS OMEGA, vol.8, no.48, pp.46227-46235, 2023 (SCI-Expanded)
- IV. **Photoassisted Charging of Li-Ion Oxygen Batteries Using g-C₃N₄/rGO Nanocomposite Photocatalysts**
LÖKÇÜ E., Kaçar N., ÇAYIRLI M., ÖZDEN R. C., ANIK M.
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.30, pp.34583-34592, 2022 (SCI-Expanded)
- V. **Enhancement of the mechanical properties of EN52CrMoV4 spring steel by deep cryogenic treatment**
Verbesserung der mechanischen Eigenschaften von EN52CrMoV4 Federstahl durch Tieftemperaturbehandlung
ÖZDEN R. C., Anık M.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.51, no.4, pp.422-431, 2020 (SCI-Expanded)
- VI. **Corrosion and Wear Characteristics of Electroless Ni-P, Ni-P-W and Composite Ni-P-W/Al₂O₃ Coatings on AZ91 Sheet**
Tasci S., ÖZDEN R. C., ANIK M.
METALS AND MATERIALS INTERNATIONAL, vol.25, no.2, pp.313-323, 2019 (SCI-Expanded)
- VII. **Hydrogen storage characteristics of Ti₂Ni alloy synthesized by the electro-deoxidation technique**
ANIK M., BAKSAN B., Orbay T. O., Kucukdeveci N., BİNAL AYBAR A., ÖZDEN R. C., GAŞAN H., KOÇ N.
INTERMETALLICS, vol.46, pp.51-55, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Glycine-Assisted Synthesis of High Surface Area (FeMnCrCoZn)₃₀₄ Microsheets**
ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.26, pp.416-419, 2023 (Scopus)
- II. **Effect of H₂/Ar Ratio on the Photoanodic Currents of Graphene/MoS₂ Films**
ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.26, pp.718-722, 2023 (Scopus)
- III. **Improvement of Photo-Catalytic Properties of Graphene by N-Doping**
ÖZDEN R. C., LÖKÇÜ E., ANIK M.
The Eurasia Proceedings of Science Technology Engineering and Mathematics, vol.21, no.1, pp.283-287, 2022 (Scopus)
- IV. **Correlation between Tetragonality and the Residual Stress in Cryotreated Spring Steels**
ÖZDEN R. C.
The Eurasia Proceedings of Science Technology Engineering and Mathematics, vol.21, no.1, pp.418-422, 2022 (Scopus)
- V. **Electrochemical Performance of Tin-Based Solder Alloys for Secondary Lithium Batteries**
LÖKÇÜ E., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science Technology Engineering and Mathematics, vol.21, no.1, pp.214-217, 2022 (Scopus)
- VI. **Synthesis of Nanocomposite Photo-Catalysts for Photo-Assisted Charging of Li-Ion Oxygen Batteries**
Lökçü E., Özden R. C., Anik M.
The Eurasia Proceedings of Science Technology Engineering and Mathematics, vol.21, no.1, pp.316-320, 2022 (Scopus)
- VII. **Improved Energy Efficiency of Lithium-Air Batteries by using Alloy Based Anode and Photocatalyst Loading Cathode**
LÖKÇÜ E., ANIK M., ÖZDEN R. C.
The Eurasia Proceedings of Science Technology Engineering and Mathematics, vol.21, no.1, pp.237-240, 2022 (Scopus)
- VIII. **Synthesis of Graphene/g-C₃N₄ Composite Photo-Electrodes for Li – Ion – Oxygen Battery**
KAÇAR N., LÖKÇÜ E., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.16, pp.162-166, 2021 (Peer-Reviewed Journal)
- IX. **Cryogenic Process Optimization for Medium Carbon Spring Steels**
ÖZDEN R. C., LÖKÇÜ E., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.16, pp.14-19, 2021 (Peer-Reviewed Journal)
- X. **Study of the Lithium Diffusion Properties of (MgCoNiLiZn)O High EntropyOxide as an Anode in Lithium-Ion Battery**
LÖKÇÜ E., ANIK M., ÖZDEN R. C.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.16, pp.77-81, 2021 (Peer-Reviewed Journal)
- XI. **Synthesis of rGO/g-C₃N₄ Composite Cathodes for Li – Ion – Oxygen Battery**
LÖKÇÜ E., KAÇAR N., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.16, pp.47-51, 2021 (Peer-Reviewed Journal)
- XII. **Effects of Deep Cryogenic Treatment on the Mechanical Properties of Medium Carbon Spring Steels**
ÖZDEN R. C., LÖKÇÜ E., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering and Mathematics, vol.11, pp.48-52, 2020 (Peer-

Reviewed Journal)

- XIII. **Effect of Co Content on the Electrochemical Properties of (MgCoNiZnLi)O Based High Entropy Oxides for Li-Ion Batteries**
LÖKÇÜ E., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), vol.11, pp.29-32, 2020 (Peer-Reviewed Journal)
- XIV. **Effect of Mg Content on the Electrochemical Properties of (MgCoNiZnLi)O Based High Entropy Oxides for Li-Ion Batteries**
LÖKÇÜ E., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), vol.11, pp.53-56, 2020 (Peer-Reviewed Journal)
- XV. **Effects of Deep Cryogenic Treatment on the Microstructural Properties of Medium Carbon Spring Steels**
ÖZDEN R. C., LÖKÇÜ E., ANIK M.
The Eurasia Proceedings of Science, Technology, Engineering and Mathematics, vol.11, pp.5-8, 2020 (Peer-Reviewed Journal)
- XVI. **The Anode Performance of the Mg_{0.2}Co_{0.2}Ni_{0.2}Zn_{0.2}Li_{0.1}Cu_{0.1}O High Entropy Oxide for Li-Ion Batteries**
LÖKÇÜ E., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), vol.11, pp.136-140, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect Of Alloying Elements On The Wear Properties Of Cryogenically Treated Medium Carbon Spring Steels**
ÖZDEN R. C., ANIK M.
UDCS'19 Fourth International Iron and Steel Symposium, 4 - 06 April 2019
- II. **Effects of Deep Cryogenic Treatment on The Mechanical Properties of 52CrMoV4 Steel**
ÖZDEN R. C., ANIK M.
UDCS'19 Fourth International Iron and Steel Symposium, 4 - 06 April 2019
- III. **Effects of Deep Cryogenic Treatment on the Wear Properties of 52 CrMoV4 Steel**
ÖZDEN R. C., ANIK M., GAŞAN H.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE ENGINEERING, 9 - 12 May 2018
- IV. **Characteristics of electroless NiPW coatings on AZ91 sheet**
ÖZDEN R. C., ANIK M.
2nd international conference on innovations in natural science and engineering, 7 - 10 September 2018
- V. **AZ91 Magnezyum Alaşımı Üzerine Yapılan Akımsız Ni-P-W / Al₂O₃ Kompozit Kaplamaya Uygulanan Isıl İşlemin Kaplamanın Korozyon Özelliklerine Etkisi**
TAŞCI S., ÖZDEN R. C., ANIK M.
14th International Corrosion Symposium, 5 - 07 October 2016
- VI. **Corrosion properties of Ni P W Al₂O₃ Electroless composite coatings on AZ91 magnesium alloy**
Taşçı S., ÖZDEN R. C., ANIK M.
18th international metallurgy and materials congress, 29 September - 01 October 2016
- VII. **Haddelenmiş AZ91 Magnezyum Alaşımı Üzerine Ni-P-W Kaplama Uygulanması ve Kaplamanın Korozyon Karakteristikleri**
TAŞCI S., ÖZDEN R. C., ANIK M.
13th International Corrosion Symposium, 15 - 17 October 2014

Scientific Refereeing

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Other Indexed Journal, October 2024

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Other Indexed Journal, October 2024

METALLURGICAL AND MATERIALS TRANSACTIONS A: PHYSICAL METALLURGY AND MATERIALS SCIENCE, SCI Journal, September 2024

METALLURGICAL AND MATERIALS TRANSACTIONS A: PHYSICAL METALLURGY AND MATERIALS SCIENCE, SCI Journal, August 2024

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Other Indexed Journal, December 2023

Fırat Üniversitesi Mühendislik Bilimleri Dergisi, Other Indexed Journal, December 2023

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, Other Indexed Journal, November 2023

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Other Indexed Journal, July 2023

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Other Indexed Journal, July 2023

Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, Other Indexed Journal, May 2023

MATERIALS SCIENCE & ENGINEERING A: STRUCTURAL MATERIALS: PROPERTIES, MICROSTRUCTURE AND PROCESSING, SCI Journal, September 2022

MATERIALS SCIENCE & ENGINEERING A: STRUCTURAL MATERIALS: PROPERTIES, MICROSTRUCTURE AND PROCESSING, SCI Journal, April 2022

MATERIALS SCIENCE & ENGINEERING A: STRUCTURAL MATERIALS: PROPERTIES, MICROSTRUCTURE AND PROCESSING, SCI Journal, December 2021

MATERIALS SCIENCE & ENGINEERING A: STRUCTURAL MATERIALS: PROPERTIES, MICROSTRUCTURE AND PROCESSING, SCI Journal, July 2021

Metrics

Publication: 30

Citation (WoS): 43

Citation (Scopus): 72

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H-Index (Scopus): 4