

Asst. Prof. İREM BURCU ALGAN ŞİMŞEK

Personal Information

Office Phone: [+90 312 202 8799](tel:+903122028799)

Email: irembalgan@gazi.edu.tr

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



International Researcher IDs

ScholarID: aK1lmFsAAAAJ

ORCID: 0000-0001-5206-3722

Publons / Web Of Science ResearcherID: N-3965-2013

ScopusID: 57200546194

Yoksis Researcher ID: 54524

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey 2015 - 2021

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), Turkey 2013 - 2015

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 2008 - 2012

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Vocational Training, Erasmus Plus Personel Eğitim Alma Hareketliliği, Vilnius University Faculty of Physics, 2019

Vocational Training, ERASMUS, Yüksek Lisans Araştırma, University of Applied Sciences Zwickau, 2015

Dissertations

Doctorate, PRODUCTION, CHARACTERIZATION AND WELDABILITY OF BORON DOPED HIGH ENTROPY ALLOYS BY ARC MELTING, Gazi University, Fen Bilimleri Enstitüsü, 2021

Postgraduate, Organik fren balatalarında kullanılan metal tozlarının sürtünme ve aşınma performansının incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), 2015

Research Areas

Metallurgical and Materials Engineering, Material science and engineering

Academic Titles / Tasks

Assistant Professor, Gazi University, Teknoloji Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2023 - Continues
Researcher, Drexel University, College of Engineering, Materials Science and Engineering, 2023 - Continues
Research Assistant, Gazi University, Teknoloji Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2013 - 2023

Courses

Kimyasal Metalurji, Undergraduate, 2022 - 2023
Failure Analysis , Undergraduate, 2022 - 2023
Failure Analysis , Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The evolution of phases in FeNiCoCrCuBx high entropy alloys produced through microwave sintering and vacuum arc melting**
ALGAN ŞİMŞEK İ. B., Talaş S., KURT A.
Revista de Metalurgia, vol.58, no.1, 2022 (SCI-Expanded)
- II. **The Effect of B Addition on the Microstructural and Mechanical Properties of FeNiCoCrCu High Entropy Alloys**
Algan Simsek İ. B., Arik M. N., Talaş Ş., Kurt A.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol.52, no.5, pp.1749-1758, 2021 (SCI-Expanded)
- III. **The effect of metal fibres and borax powders on the wear and friction performances of the organic based brake pads**
Algan İ. B., Kurt A.
Metallofizika i Noveishie Tekhnologii, vol.39, no.11, pp.1511-1523, 2017 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Boron on Microstructure and Hardness Properties of High Entropy Alloys**
Algan İ. B., Arik M. N., Talaş Ş., Kurt A., Akkurt F.
International Symposium on Boron (BORON2019), Nevşehir, Turkey, 17 - 19 April 2019, pp.164-169
- II. **Farkli Toz Metal Malzemelerin Mikrodalga Ve İndüksiyon Isıtma İle Birleştirilebilirliği**
ALGAN İ. B., AKSU Y., ÇİFÇİ Y., ÜNLÜ N., ÇITAK R., ÖZÇATALBAŞ Y., KURT A.
5th International Conference on Welding Technologies and Exhibition (ICWET'18), Saraybosna, Bosnia And Herzegovina, 26 - 28 September 2018, pp.471-476
- III. **Joinability Of Brass Alloy By Furnace And Microwave Brazing**
Aksu Y., Algan İ. B., Çıtak R., Kurt A.
5th International Conference on Welding Technologies and Exhibition (ICWET'18) 26-28 September 2018, Sarajevo-Bosnia and Herzegovina, Sarajevo, Bosnia And Herzegovina, 26 - 28 September 2018, pp.354-359
- IV. **Investigation of Sinterbonding of Cu and Fe Couple Produced by Powder Metallurgy Method**
Avcı H., Algan İ. B., Kurt A.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017, pp.277-286
- V. **Soğuk Basınç Kaynak Yöntemiyle Alüminyum Tellerin Kaynaklanabilirliği**
Algan İ. B., Ayata A., Atmaca E. S., Kurt A.
4. Uluslararası Kaynak Teknolojileri Konferansı ve Sergisi, Gaziantep, Turkey, 11 - 13 May 2016, vol.2, pp.1660-1666
- VI. **Investigation Of Weldability On The Galvanized Sheet Steels By Laser Welding Method**

Algan İ. B., Atmaca E. S., Kurt A.

4. International Conference On Welding Technologies and Exhibition, Gaziantep, Turkey, 11 - 13 May 2016, vol.1, pp.380-388

VII. Effects of Borax On The Wear Behavior of Organic Brake Lining Materials

Algan İ. B., Kurt A.

17. International Metallurgy and Materials Congress İstanbul TÜYAP, İstanbul, Turkey, 11 - 13 September 2014, vol.1, pp.738-744

VIII. SAPLAMA KAYNAK YÖNTEMİ İLE INCONEL 718 SÜPERALAŞIM MALZEMENİN KAYNAKLANABİLİRLİĞİ

Kurt A., Algan İ. B., Atmaca E. S.

3rd International Conference on Welding Technologies and Exhibition, Manisa, Turkey, 22 - 24 May 2014, pp.588-594

IX. WELDABILITY OF POWDER METAL IRON METERIALS BY STUDY WELDING

Kurt A., Algan İ. B., Atmaca E. S.

3 rd INTERNATIONAL CONFERENCE ON WELDING TECHNOLOGIES and EXHIBITON, Manisa, Turkey, 21 - 23 May 2014, pp.41-48

X. Inconel 718 Süperalaşım Malzemenin TIG Kaynağı İle Kaynaklanabilirliği

Atmaca E. S., Algan İ. B., Kurt A., Köseoğlu T.

3. Uluslararası Kaynak Teknolojileri Konferansı ve Sergisi, Manisa, Turkey, 21 - 23 May 2014, vol.1, pp.893-900

Supported Projects

Algan Şimşek İ. B., Kurt A., Project Supported by Higher Education Institutions, Bor Katkılı Yüksek Entropi Alaşımının Ark Ergitme İle Üretimi ve Karakterizasyonu, 2018 - 2021

Algan İ. B., Kurt A., Aydınonat Y. S., KOSGEB, Sinter Bronz Balata Malzemelerinin Geliştirilmesi, 2019 - 2020

Algan İ. B., Kurt A., Talaş Ş., Arık M. N., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Fe, Ni, Co, Cr, Cu Esaslı Bor Katkılı Yüksek Entropi Alaşımının Ark Ergitme ile Üretimi ve Karakterizasyonu, 2018 - 2020

Algan İ. B., Çavdar E., Kılıçlı V., TUBITAK Project, Doğa Eğitim ve Bilim Okulları-Geleceğini Bilimle Şekillendir, 2019 - 2019

Ateş H., Kılıçlı V., Algan Şimşek İ. B., Project Supported by Higher Education Institutions, Nano Materials Laboratory and Characterize Analysis Labotory, 2015 - 2017

Algan İ. B., Ateş H., Çavdar Ş., Koralay H., Kılıçlı V., Project Supported by Higher Education Institutions, Nanomalzeme Sentez ve Karakterize-Analiz Laboratuvar Kurulumu Altyapı Projesi- Gazi Üniversitesi BAP, 2015 - 2016

Algan İ. B., Kılıçlı V., Güral A., Çinici H., Aksu Y., Project Supported by Higher Education Institutions, Metalografi Laboratuvarı Modernizasyonu ve Yenilenmesi 2013-Gazi Üniversitesi BAP, 2013 - 2015

Metrics

Publication: 13

Citation (WoS): 2

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 1

Scholarships

2219-International Postdoctoral Research Fellowship Program for Turkish Citizens, TUBITAK, 2023 - Continues

Non Academic Experience

