

Personal Information

Office Phone: [+90 212 383 4708](tel:+902123834708)

Email: bayraky@yildiz.edu.tr

Other Email: yahyabayrak@gmail.com

Web: <https://avesis.yildiz.edu.tr/bayraky>

International Researcher IDs

ScholarID: LZfYqFsAAAAJ

ORCID: 0000-0003-3900-2807

Publons / Web Of Science ResearcherID: AAZ-4768-2020

ScopusID: 36092629400

Yoksis Researcher ID: 168367

Education

Doctorate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2011 - 2019

Postgraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2007 - 2009

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2002 - 2006

Research Areas

Metallurgical and Materials Engineering, Production Metallurgy, Non-Ferrous Alloy Production, Electrometallurgy, Engineering and Technology

Academic Positions

Expert, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2011 - Continues

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Production and Characterization of B₄C Content-Dependent Aluminum Matrix Composites Fabricated via Hot Pressing**
BAYRAK Y., KISASÖZ A., SEZER R.
Journal of Materials Engineering and Performance, vol.34, no.2, pp.1607-1618, 2025 (SCI-Expanded)
- II. **Influence of SiC content on the properties of Al/SiC composites produced by powder metallurgical route**
BAYRAK Y.
Materialpruefung/Materials Testing, vol.66, no.12, pp.2011-2017, 2024 (SCI-Expanded)
- III. **Characterization of Al/B₄C–Y₂O₃ hybrid composites produced by vacuum hot pressing combined**

with Al₂O₃-Y₂O₃ interaction

BAYRAK Y., Özbay Kısasöz B., Tarakçı G., KISASÖZ A.

Ceramics International, vol.50, no.19, pp.36230-36242, 2024 (SCI-Expanded)

- IV. **Properties of Al/Y₂O₃ composites produced by Y₂O₃-Al₂O₃ interaction in powder metallurgy route**
BAYRAK Y., KISASÖZ A., SEZER R.
Materials Letters, vol.358, 2024 (SCI-Expanded)
- V. **Removal of Cu(II) Ions from Aqueous Solutions by Ferrochrome Ash: Investigation of Mechanism and Kinetics**
Uğurlu E., Birol B., Gencten M., Bayrak Y.
Water (Switzerland), vol.15, no.6, 2023 (SCI-Expanded)
- VI. **EFFECT OF ETCHING METHODS IN METALLOGRAPHIC STUDIES OF DUPLEX STAINLESS STEEL 2205**
KISASÖZ A., KARAASLAN A., BAYRAK Y.
METAL SCIENCE AND HEAT TREATMENT, vol.58, pp.704-706, 2017 (SCI-Expanded)
- VII. **Kinetic properties of co-reduced Co-B/graphene catalyst powder for hydrogen generation of sodium borohydride**
Aydin M., Hasimoglu A., BAYRAK Y., Ozdemir O. K.
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.7, no.1, 2015 (SCI-Expanded)
- VIII. **Effect of Section Thickness on the Microstructure and Hardness of Ductile Cast Iron**
Guzel E., Yuksel C., BAYRAK Y., Sen O., Ekerim A.
MATERIALS TESTING, vol.56, no.4, pp.285-288, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **The effect of holding time after Sr addition on microstructural and mechanical properties of A356 alloy**
Yaşa S., Kabil A., Bayrak Y., Çiğdem M.
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.26, no.4, pp.634-637, 2020 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Investigation Of The Heavy Metal Adsorption Properties Of Ferrochrome Flue Dust**
Uğurlu E., BİROL B., GENÇTEN M., BAYRAK Y.
International Marmara Sciences Congress (Imascon Autumn) 2022 Proceedings Book, Kocaeli, Turkey, 9 - 10 December 2022, pp.38, (Summary Text)
- II. **Dependency of Eutectic Spacing and Microhardenss on Directions and Magnitudes of Uniform Electrical Field in the Al-Cu Eutectic Alloy**
Basit S., Erol M., Bayrak Y., Maraşlı N.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.1099-1102
- III. **Magnesium Metal Production with Magneterm Process by Using Aluminum Powder**
Bayrak Y., Erol M., Basit S., Ekerim A.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.183-186
- IV. **Measurement of Thermal Conductivity Variation with Temperature for Solid Materials Using Longitudinal Heat Flow Method**
Erol M., Basit S., Bayrak Y., Maraşlı N.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.276-279
- V. **Determination of Magnesium Production Parameters by Metalothermic Reduction Method**
Bayrak Y., Ekerim A.
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018,

pp.1105-1112

VI. APPLICATION OF ECAP ON COMMERCIAL PURITY ALUMINUM

Evcimen N., BAYRAK Y., EKERİM A.

TMS 2010 Annual Meeting Supplemental Proceedings on Materials Processing and Properties, Washington, United States Of America, 14 - 18 February 2010, pp.83-88

VII. The Effect of Severe Plastik Plastik Deformation on the Properties of Aluminium

Bayrak Y., Sezer R., Ekerim A.

5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009, pp.727-732

Funded Projects

BİROL B., BAYRAK Y., GENÇTEN M., Uğurlu E., Project Supported by Higher Education Institutions, Ferrokrom Üretiminde Açığa Çıkan Baca Tozlarının Sulu Sistemlerdeki Ağır Metal Adsorpsiyon Özelliklerinin İncelenmesi, 2022 - 2024

Metrics

Publication: 16

Citation (WoS): 24

Citation (Scopus): 48

H-Index (WoS): 3

H-Index (Scopus): 4

Non Academic Experience

yıldız teknik üniversitesi, uzman