

## **Personal Information**

**Email:** bayraky@yildiz.edu.tr

**Other Email:** yahyabayrak@gmail.com

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

## **International Researcher IDs**

ORCID: 0000-0003-3900-2807

Yoksis Researcher ID: 168367

## **Education Information**

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 Titles / Tasks**

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

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **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)
- II. **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)
- III. **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, 2023 (SCI-Expanded)
- IV. **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)

**V. 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)

**VI. 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)

## Refereed Congress / Symposium Publications in Proceedings

**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

**II. Dependency of Eutectic Spacing and Microhardness 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 Metalthermic 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 Plastic 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

## Metrics

Publication: 14  
Citation (WoS): 24  
Citation (Scopus): 32  
H-Index (WoS): 3  
H-Index (Scopus): 3

**Non Academic Experience**

yıldız teknik üniversitesi