

## Lect. PhD YAHYA BAYRAK

### Personal Information

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### International Researcher IDs

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

ScopusID: 36092629400

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. **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 Al<sub>2</sub>O<sub>3</sub>-Y<sub>2</sub>O<sub>3</sub> 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/Y<sub>2</sub>O<sub>3</sub> composites produced by Y<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> 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)

## 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 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

## **Supported 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