

## Res. Asst. HASAN İSMAİL YAVUZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-7450-2020

Yoksis Researcher ID: 313480

### Education Information

Doctorate, Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2022 - Continues  
Postgraduate, Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2019 - 2022  
Undergraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2013 - 2018

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, TOZ METALURJİSİ İLE ÜRETİLEN Ti-HA BİYOKOMPOZİT KAPLAMANIN BİYOMEDİKAL ALANDA KULLANILAN TİTANYUM ALAŞIMLARININ ÖZELLİKLERİNE ETKİSİNİN İNCELENMESİ, Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2022

### Research Areas

Metallurgical and Materials Engineering, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2019 - Continues

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

- Characterization of corrosion products formed in high-strength dual-phase steels under an accelerated corrosion test**  
Giray D., Şeref Sönmez M., Yamanoglu R., Yavuz H. İ., Muratal O.  
Engineering Science and Technology, an International Journal, vol.57, 2024 (SCI-Expanded)

- II. **Impact of Cu and Ce on the electrochemical, antibacterial, and wear properties of 316 L stainless steel: Insights for biomedical applications**  
Yamanoglu R., Petkoska A. T., Yavuz H. İ., Uzuner H., Drienovsky M., Nasov I., Khoshnaw F.  
Materials Today Communications, vol.40, 2024 (SCI-Expanded)
- III. **Biocompatibility and Corrosion of Microplasma-Sprayed Titanium and Tantalum Coatings versus Titanium Alloy**  
Alontseva D., Safarova (Yantsen) Y., Voinarovych S., Obrosov A., YAMANOĞLU R., Khoshnaw F., YAVUZ H. İ., Nessipbekova A., Syzdykova A., Azamatov B., et al.  
COATINGS, vol.14, no.2, 2024 (SCI-Expanded)
- IV. **The influence of alloying elements on tribological properties of Fe-Cu-C based metal matrix composite bearing materials produced by powder metallurgy**  
YAVUZ H. İ., EYRİ B., YAMANOĞLU R., FEYZULLAHOĞLU E.  
Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, vol.237, no.2, pp.288-299, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A review on the properties of  $\beta$  type Ti alloys: microstructure, mechanical, corrosion properties and production methods**  
Yavuz H. İ., Ymanoğlu R.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.26, no.4, pp.1601-1620, 2023 (ESCI)
- II. **Recycling of Al6061 Chip by Powder Metallurgy**  
Yavuz H. İ., Ymanoğlu R., Başçı Ü. G.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, no.10, pp.1689-1700, 2022 (Peer-Reviewed Journal)
- III.  **$\beta$ -type Ti Alloys for Biomedical Applications**  
Yavuz H. İ., Ymanoğlu R.  
Annals of Advanced Biomedical Sciences, vol.3, no.2, pp.1-5, 2020 (Peer-Reviewed Journal)
- IV. **TOZ METALURJİSİ İLE BİYOMEDİKAL Ti5Ag ALAŞIMININ ÜRETİMİ**  
Yamanoglu R., Karayünlü Bozbaş S., Kolaylı F., Erkan S., Uzuner H., Muratal O., Yavuz H. İ.  
EJONS International Journal of Mathematic, Engineering and Natural Sciences, vol.4, no.15, 2020 (Peer-Reviewed Journal)
- V. **Recycling of Fly Ash as an Additive in Industrial Porcelain Tiles**  
Yavuz H. İ., Çiçek B., Karadağlı E., Öztürk B.  
Afyon Kocatepe Üniversitesi Fen Bilimleri Dergisi, no.Özel Sayı, pp.20-29, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Hot Pressing of Doped ZnO Diluted Magnetic Semiconductors for Spintronic Device Applications and Investigation of Structural Properties**  
Candan İ., Yavuz H. İ., Ymanoğlu R.  
in: Current Debates in Natural and Engineering Sciences 10, HİKMET YETER ÇOĞUN, FERİT KARGIN, Editor, BİDGE Yayınları, Ankara, pp.240-256, 2023
- II. **Babit Tozunun Gaz Atomizasyonu İle Üretimi Ve Saf Demirin Aşınma Özelliklerine Etkisi**  
Muratal O., Ymanoğlu R., Avcu E., Gökalp İ., Yavuz H. İ., Gönülalan Y., Kurban M. E., Bayram E.  
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar, Hikmet Y. ÇOĞUN İshak PARLAR Hasan ÜZMUŞ, Editor, Bidgcongress, Ankara, pp.635-646, 2023

- I. **HOT-PRESS COATING OF NI-HARD 4 ALLOY ON PURE IRON**  
Muratal O., Yavuz H. İ., Duran C., Koç F. G., Ymanoğlu R.  
VI. INTERNATIONAL CONFERENCE ON GLOBAL PRACTICE OF MULTIDISCIPLINARY SCIENTIFIC STUDIES , Lisbon, Portugal, 9 - 16 April 2024, pp.968-976
- II. **Production of Low-Cost Beta-Type Ti-Mn and Ti-Mn-Fe Alloys by Powder Metallurgyfor Biomedical Application**  
Ymanoğlu R., Yavuz H. İ.  
5th INTERNATIONAL CONFERENCE ON CURRENT SCIENTIFIC STUDIES, Amman, Jordan, 14 - 17 March 2024, pp.352-363
- III. **Production of B-Type Titanium Alloys by Hot Press and Investigation of Wear Properties**  
Yavuz H. İ., Ymanoğlu R.  
International Marmara Sciences Congress, Kocaeli, Turkey, 9 - 10 December 2022, vol.2, pp.66
- IV. **Cobalt Based Biomedical Materials**  
Yavuz H. İ., Kırac M., Uzuner H., Özdemir Y., Yıldırım Avcu Y.  
1st International Conference on Innovative Academic Studies, 10 - 13 September 2022, pp.1249-1259
- V. **Production of Babbit Alloy Powders by Gas Atomisation**  
Yavuz H. İ., Muratal O., Ymanoğlu R., Akyıldız Y., Yüksel O.  
1st International Conference on Innovative Academic Studies, Konya, Turkey, 10 - 13 September 2022, pp.1588-1593
- VI. **Investigation of The Productionability of Babbitt Alloys with Gas Atomization and Coatability by Using Thermal Spraying Methods**  
Yavuz H. İ., Ymanoğlu R.  
16. MAS International European Conference on Mathematics, Engineering, Natural & Medical Sciences, Mardin, Turkey, 22 - 23 February 2022, vol.3, pp.245-258
- VII. **Basınç Destekli Sinterleme ile Ti6Al4V Alaşımı Üzerine Ti-HA Biyokompozit Kaplanması**  
Ymanoğlu R., Yavuz H. İ.  
13th. INTERNATIONAL CONGRESS ON MATHEMATICS, ENGINEERING, NATURAL AND MEDICAL SCIENCES, Nevşehir, Turkey, 26 - 27 October 2021, pp.83-88
- VIII. **INVESTIGATION OF WEAR PROPERTIES OF METALLIC BIOMATERIALS**  
Yavuz H. İ., Ymanoğlu R.  
Euro Asia 7th. International Congress on Applied Sciences, Trabzon, Turkey, 21 - 22 August 2020, pp.158-169
- IX. **Utilization of Silver and Copper in Metallic Biomaterials**  
Yavuz H. İ., Ymanoğlu R.  
Euro Asia 7th. International Congress on Applied Sciences, Trabzon, Turkey, 21 - 22 August 2020, vol.13, pp.117-129

## Supported Projects

YAMANOĞLU R., AVCU E., KOÇ F. G., KAHRIMAN F., YILDIRAN AVCU Y., ABAKAY E., YAVUZ H. İ., UZUNER H., MURATAL O., Project Supported by Higher Education Institutions, Gümüş ilavesinin Ti13Nb13Zr alaşımının korozyon ve antibakteriyel özelliklerine etkisinin incelenmesi, 2024 - Continues

YAMANOĞLU R., DURAN C., MURATAL O., YAVUZ H. İ., Project Supported by Higher Education Institutions, Babbit Alaşım Tozlarının Gaz Atomizasyonu ile Üretimi ve Termal Püskürtme Metodu ile Yatak Malzemelerine Kaplanması, 2021 - 2023  
CANDAN İ., YAVUZ H. İ., YAMANOĞLU R., Project Supported by Higher Education Institutions, Spintronik aygıt uygulamaları için NiCr katkılı ZnO seyreltilmiş manyetik yarıiletkenlerin sıcak pres yöntemi ile üretilmesi ve manyetoelektronik özelliklerinin incelenmesi, 2020 - 2023

YAMANOĞLU R., YAVUZ H. İ., Project Supported by Higher Education Institutions, TOZ METALURJİSİ İLE ÜRETİLEN TİTANYUM-HİDROKSİAPATİT BİYOKOMPOZİT KAPLAMANIN BİYOMEDİKAL ALANDA KULLANILAN TİTANYUM ALAŞIMLARININ ÖZELLİKLERİNE ETKİSİNİN İNCELENMESİ, 2021 - 2022

## **Metrics**

Publication: 21

Citation (WoS): 9

Citation (Scopus): 9

H-Index (WoS): 2

H-Index (Scopus): 2

## **Non Academic Experience**

Organized industrial Zone, ÇOLAKOĞLU METALURJİ, KALİTE METALURJİ ARGE MÜDÜRLÜĞÜ