



# RIDVAN YAMANOĞLU

## PROF.

**Email :** ryamanoglu@kocaeli.edu.tr

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

**Fax Phone :** [+90 262 303 3083](tel:+902623033083)

**Address :** Kocaeli Üniversitesi, Umuttepe Yerleşkesi,  
Mühendislik Fakültesi A Blok Metalurji ve Malzeme  
Mühendisliği Bölümü 41380 KOCAELİ

### International Researcher IDs

ScholarID: I6RfnZ0AAAAJ

ORCID: 0000-0002-4661-8215

Publons / Web Of Science ResearcherID: F-4815-2018

ScopusID: 54421673300

Yoksis Researcher ID: 29833



## Learning Knowledge

Doctorate 2007 - 2011	Kocaeli University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey
Postgraduate 2002 - 2005	Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey
Undergraduate 1997 - 2001	Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey

## Certificates, Courses and Trainings

Vocational Training, Atomization For Metal Powders, Perdac, Personal Development Advanced Courses, 2015

Vocational Training, Sintering Advanced Processes, EPMA, 2012

Vocational Training, Sintering Fundamentals, EPMA, 2011

Vocational Training, Powder Injection Molding, EPMA, 2010

## Dissertations

Doctorate, Atomizasyon teknikleri ile toz üretimi, sinterlenmesi ve karakterizasyonu, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), 2011

Postgraduate, Titan ve alaşım tozlarının prep yöntemi ile üretimi ve karakterizasyonu, Kocaeli Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2005

## Academic Titles / Tasks

Professor 2023 - Continues	Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği
Associate Professor 2017 - 2023	Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği
Assistant Professor 2012 - 2017	Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği
Research Assistant 2002 - 2012	Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği

## Supported Projects

1. YILDIRAN AVCU Y., AVCU E., UZUNER H., KOÇ F. G., ABAKAY E., ARMAĞAN M., Çalım E., GÖKALP İ., ABAKAY E., YAMANOĞLU R., Project Supported by Higher Education Institutions, Biyomedikal titanyum alaşımlarına özel yüzey desenlerinin işlenmesi ve elde edilen yüzeylerin mekanik mikroyapısal korozif ve biyolojik özelliklerinin araştırılması, 2023 - Continues
2. Ymanoğlu R., EU Supported Other Project, Advanced metamaterials dedicated for cardiovascular surgeries to minimize tissue injury, 2023 - 2026
3. Ymanoğlu R., Safarova Y., Alontseva D., Khoshnow F., Project Supported by Public Organizations in Other Countries, Reliability Enhancement of Medical Implants Through Using Innovative Manufacturing and Coating Techniques, 2022 - 2024
4. Ymanoğlu R., TÜBİTAK Project, EKLEMELİ İMALATA YÖNELİK YERLİ VE ÖZGÜN TASARIM, MALZEME, ÜRETİM VE TEZGAH TEKNOLOJİLERİNİN GELİŞTİRİLMESİ, 2021 - 2024
5. YAMANOĞLU R., DURAN C., MURATAL O., YAVUZ H. İ., Project Supported by Higher Education Institutions, Babit Alaşım Tozlarının Gaz Atomizasyonu ile Üretimi ve Termal Püskürtme Metodu ile Yatak Malzemelerine Kaplanması, 2021 - 2023
6. AVCU E., YILDIRAN AVCU Y., ÇALIM E., YAMANOĞLU R., Project Supported by Higher Education Institutions, Bilyalı Dövme Sonrası Değişen Mikroyapı - Mekanik Özellik İlişkilerinin Yüzeyaltı Mekanik Özellik Haritalaması ve İleri Elektron Mikroskopisi Yöntemleri ile İncelenmesi, 2021 - 2023
7. 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
8. 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
9. YAMANOĞLU R., Project Supported by Higher Education Institutions, BİYOMEDİKAL ALANDA KULLANILACAK METALİK MALZEMELERİN ELASTİSİTE MODÜLLERİNİN TAHRİBATSIZ TEKNİKLER İLE BELİRLENMESİ, 2019 - 2020
10. YAMANOĞLU R., Project Supported by Higher Education Institutions, FDM 3D Yazıcılar İçin Flamar Özelliklerinin Geliştirilmesi, 2019 - 2020
11. YAMANOĞLU R., ÇAVUŞOĞLU O., ERKAN S., Project Supported by Higher Education Institutions, SAF TİTANYUM VE Tİ6AL4V ALAŞIMININ SICAK PRES İLE SERT NİKEL TOZLARI KAPLANARAK AŞINMA ÖZELLİKLERİNİN GELİŞTİRİLMESİ, 2018 - 2020
12. YAMANOĞLU R., ERKAN S., Project Supported by Higher Education Institutions, GÜMÜŞ TOZLARININ KİMYASAL VE ATOMİZASYON TEKNİKLERİ İLE ÜRETİMİ, 2019 - 2019

13. YAMANOĞLU R., Project Supported by Higher Education Institutions, AL-Sİ ESASLI MALZEMELERİN TOZ METALURJİSİ İLE ÜRETİMİ VE AŞINMA ÖZELLİKLERİNİN GELİŞTİRİLMESİ, 2017 - 2018
14. YILMAZ T., YAMANOĞLU R., KARSLI YILMAZ N. G., Project Supported by Higher Education Institutions, CAM ELYAF TAKVİYELİ POLİAMİT 6,6 KOMPOZİTLERİNİN MEKANİK DAYANIM VE KIRILMA TOKLUĞU ÖZELLİKLERİNİN EŞ ZAMANLI OLARAK İYİLEŞTİRİLMESİ, 2016 - 2018
15. YAMANOĞLU R., UZUNER H., Project Supported by Higher Education Institutions, ANTİBAKTERİYEL ÖZELLİKLERİ GELİŞTİRİMİŞ TİTANYUM ALAŞIMLARININ TOZ METALURJİSİ İLE ÜRETİMİ, 2015 - 2017
16. Yamanoglu R., Kolaylı F., Efendi E., Uzuner H., Project Supported by Higher Education Institutions, Antibakteriyel Özellikleri Geliştirilmiş Titanyum Alaşımlarının Toz Metalurjisi ile Üretimi , 2015 - 2017
17. YAMANOĞLU R., Project Supported by Higher Education Institutions, DEMİR DIŞI METAL TOLARININ..., 2014 - 2015
18. ZEREN A., YAMANOĞLU R., Project Supported by Higher Education Institutions, Al / Grafit kompozit esaslı yatak malzemelerin tribolojik özelliklerinin geliştirilmesi, 2013 - 2014
19. Zeren M., Yamanoglu R., Project Supported by Higher Education Institutions, Al/Grafit Kompozit Esaslı Yatak Malzemelerin Tribolojik Özellikleri, 2013 - 2014
20. YAMANOĞLU R., Project Supported by Higher Education Institutions, Polimer Matrisli Kompozit Malzemelerde Takviye Malzemesi Olarak Endüstriyel Katı Atıkların Kullanımı, 2012 - 2014
21. ZEREN M., YAMANOĞLU R., Project Supported by Higher Education Institutions, Havaçılık ve otomotiv Endüstrisinde Kullanılan Toz Metalurjik Titanyum Alaşımlarının Aşınma Özelliklerinin Geliştirilmesi, 2011 - 2013

## Awards

1. Yamanoglu R., Arge Proje Pazarı Ödülü, Kou Teknoloji Transfer Ofisi, October 2019
2. Yamanoglu R., Efendi E., Daoud I., Best Paper Award, World Academy Of Science, Engineering And Technology, May 2017

## Scholarships

Doktora Sonrası Araştırma Bursu, TUBITAK, 2014 - 2014

Doktora Araştırma Bursu, YOK, 2009 - 2010

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Kocaeli University, December, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Kocaeli Üniversitesi, December, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Kocaeli Üniversitesi, October, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Kocaeli Üniversitesi, October, 2023

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

1. **Biocompatibility and Corrosion of Microplasma-Sprayed Titanium and Tantalum Coatings versus Titanium Alloy**  
Alontseva D., Safarova (Yantsen) Y., Voinarovych S., Obrosova A., YAMANOĞLU R., Khoshnaw F., YAVUZ H. İ., Nessipbekova A., Syzdykova A., Azamatov B., et al.  
COATINGS, vol.14, no.2, 2024 (SCI-Expanded)

2. **MILLING PARAMETER OPTIMIZATION FOR THE REFINEMENT OF NiO/Al MIXTURES AND THE SYNTHESIS OF Ni/Al<sub>2</sub>O<sub>3</sub> NANOCOMPOSITES**  
Berramdan N., Boutefnouchet H., Zidani M., YAMANOĞLU R., Curfs C.  
Journal of Mining and Metallurgy, Section B: Metallurgy, vol.60, no.1, pp.45-58, 2024 (SCI-Expanded)
3. **Corrosion Behavior of Shot-Peened Ti6Al4V Alloy Produced via Pressure-Assisted Sintering**  
Avcu E., Abakay E., Yildiran Avcu Y., Çalim E., Gökalp I., Iakovakis E., Koç F. G., Yamanoğlu R., Akncı A., Guney M.  
COATINGS, vol.13, no.12, 2023 (SCI-Expanded)
4. **Support recycling in additive manufacturing: A case study for enhanced wear performance of Ti6Al4V alloy**  
YAMANOĞLU R., Bahador A., Kondoh K.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.237, no.7, pp.1603-1608, 2023 (SCI-Expanded)
5. **Characterization of Ti4Al4Mo/SiC composite produced by pressure-assisted sintering**  
YAMANOĞLU R., Bahador A., Kondoh K., DURAN C., Akyildiz Y., Ozdemir Y., Ozturk O.  
Bulletin of Materials Science, vol.46, no.2, 2023 (SCI-Expanded)
6. **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)
7. **Influence of micro crystalline cellulose on EPDM-based automotive sealing profile**  
POYRAZ B., Guner Y., Yardim T., YAMANOĞLU R., TOZLUOĞLU A., DURMUŞ S., ŞEN M.  
JOURNAL OF ELASTOMERS AND PLASTICS, vol.55, no.1, pp.28-45, 2023 (SCI-Expanded)
8. **Surface and Tribological Properties of Powder Metallurgical Cp-Ti Titanium Alloy Modified by Shot Peening**  
Avcu Y., Iakovakis E., Guney M., Çalim E., Özkılıncı A., Abakay E., Sönmez F., Koç F. G., Yamanoğlu R., Cengiz A., et al.  
COATINGS, vol.13, no.1, 2023 (SCI-Expanded)
9. **Lignin in Place of Carbon Black for Ethylene-Propylene-Diene-Monomer Based Automotive Sealing Profiles**  
Poyraz B., Güner Y., Tozluoğlu A., YAMANOĞLU R., CANDAN Z., ŞEN M.  
BIORESOURCES, vol.17, no.4, pp.5905-5918, 2022 (SCI-Expanded)
10. **Tribological properties of in situ oxide reinforced nickel matrix composites produced by pressure-assisted sintering**  
Mameri A., Daoud I., Rezzoug A., Azem S., YAMANOĞLU R.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.120, no.5-6, pp.3731-3740, 2022 (SCI-Expanded)
11. **Fabrication Methods of Porous Titanium Implants by Powder Metallurgy**  
YAMANOĞLU R., Bahador A., Kondoh K.  
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.74, no.11, pp.2555-2567, 2021 (SCI-Expanded)
12. **Strength-ductility balance of powder metallurgy Ti-2Fe-2W alloy extruded at high-temperature**  
Bahador A., Issariyapat A., Umeda J., YAMANOĞLU R., Pruncu C., Amrin A., Kondoh K.  
Journal of Materials Research and Technology, vol.14, pp.677-691, 2021 (SCI-Expanded)
13. **Ultrafine-grain formation and improved mechanical properties of novel extruded Ti-Fe-W alloys with complete solid solution of tungsten**  
Bahador A., Umeda J., YAMANOĞLU R., Amrin A., Alhazaa A., Kondoh K.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.875, 2021 (SCI-Expanded)
14. **New Magnesium Composite with Mg17Al12 Intermetallic Particles**  
YAMANOĞLU R., Bahador A., Kondoh K., GÜMÜŞ S., Gokce S., Muratal O.  
POWDER METALLURGY AND METAL CERAMICS, vol.60, no.3-4, pp.216-224, 2021 (SCI-Expanded)
15. **Effect of Mo Addition on the Mechanical and Wear Behavior of Plasma Rotating Electrode Process Atomized Ti6Al4V Alloy**

- YAMANOĞLU R., Bahador A., Kondoh K.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.30, no.5, pp.3203-3212, 2021 (SCI-Expanded)
16. **Microstructure globularization of high oxygen concentration dual-phase extruded Ti alloys via powder metallurgy route**  
Bahador A., Umeda J., Ghandvar H., Bakar T. A. A., YAMANOĞLU R., Issariyapat A., Kondoh K.  
Materials Characterization, vol.172, 2021 (SCI-Expanded)
  17. **Pressure assisted bonding process of stainless steel on titanium alloy using powder metallurgy**  
Khoshnaw F., Yamanoglu R., Basci U. G., Muratal O.  
Materials Chemistry and Physics, vol.259, 2021 (SCI-Expanded)
  18. **Strengthening evaluation and high-temperature behavior of Ti-Fe-O-Cu-Si alloy**  
Bahador A., Umeda J., YAMANOĞLU R., Abu Bakar T. A., Kondoh K.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.800, 2021 (SCI-Expanded)
  19. **Deformation mechanism and enhanced properties of Cu-TiB<sub>2</sub> composites evaluated by the in-situ tensile test and microstructure characterization**  
Bahador A., Umeda J., Yamanoglu R., Ghandvar H., Issariyapat A., Abu Bakar T. A., Kondoh K.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.847, 2020 (SCI-Expanded)
  20. **EFFECT OF SILVER CONTENT ON THE WEAR AND MECHANICAL PROPERTIES OF POWDER METALLURGICAL Ti-5Al-2.5Fe-xAg ALLOYS**  
YAMANOĞLU R., Khoshnaw F., Daoud I., Efendi E.  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.56, no.1, pp.119-125, 2020 (SCI-Expanded)
  21. **Physicomechanical properties of porous materials by spark plasma sintering**  
Azarniya A., Azarniya A., SAFAVÍ M. S., AHMADIPOUR M. F., Seraji M. E., SOVÍZÍ S., SAQAEÍ M., YAMANOĞLU R., SOLTANIJEAD M., Hosseini H. R. M., et al.  
Critical Reviews in Solid State and Materials Sciences, vol.45, no.1, pp.22-65, 2020 (SCI-Expanded)
  22. **Pressureless Spark Plasma Sintering: A Perspective from Conventional Sintering to Accelerated Sintering Without Pressure**  
YAMANOĞLU R.  
POWDER METALLURGY AND METAL CERAMICS, vol.57, pp.513-525, 2019 (SCI-Expanded)
  23. **Titanium-304L Stainless Steel Joining by Powder Metallurgical Uniaxial Pressing under Vacuum Conditions**  
TELLÍ M. B., YAMANOĞLU R., ŞANLI H.  
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.37-40, 2018 (SCI-Expanded)
  24. **Spark plasma sintering versus hot pressing–densification, bending strength, microstructure, and tribological properties of Ti<sub>5</sub>Al<sub>2.5</sub>Fe alloys**  
YAMANOĞLU R., DAOUD I., OLEVSKY E. A.  
Powder Metallurgy, vol.61, no.2, pp.178-186, 2018 (SCI-Expanded)
  25. **Production and mechanical properties of Ti-5Al-2.5Fe-xCu alloys for biomedical applications**  
YAMANOĞLU R., EFENDI E., KOLAYLI F., UZUNER H., DAOUD I.  
BIOMEDICAL MATERIALS, vol.13, no.2, 2018 (SCI-Expanded)
  26. **MICROSTRUCTURE CHARACTERIZATION AND QUANTITATIVE ANALYSIS OF COPPER ALLOY MATRIX COMPOSITES REINFORCED WITH WC-xNi POWDERS PREPARED BY SPONTANEOUS INFILTRATION**  
DAOUD I., Miroud D., YAMANOĞLU R.  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.54, no.2, pp.169-177, 2018 (SCI-Expanded)
  27. **Failure analysis of wire-breaks in aluminum conductor production and investigation of early failure reasons for transmission lines**  
KARABAY S., ERTÜRK A. T., ZEREN M., YAMANOĞLU R., KARAKULAK E.  
ENGINEERING FAILURE ANALYSIS, vol.83, pp.47-56, 2018 (SCI-Expanded)
  28. **Production of porous Ti<sub>5</sub>Al<sub>2.5</sub>Fe alloy via pressureless spark plasma sintering**

- YAMANOĞLU R., GÜLSOY N., Olevsky E. A., GÜLSOY H. Ö.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.680, pp.654-658, 2016 (SCI-Expanded)
29. **Mechanical properties of hypoeutectic Al-Ni alloys with Al<sub>3</sub>Ni intermetallics**  
KARAKULAK E., KOÇ F. G., YAMANOĞLU R., ZEREN M.  
MATERIALS TESTING, vol.58, no.2, pp.117-121, 2016 (SCI-Expanded)
30. **Enhanced surface properties of iron by in situ hard nickel coating**  
YAMANOĞLU R., EFENDI E.  
MATERIALS TESTING, vol.58, no.2, pp.151-154, 2016 (SCI-Expanded)
31. **In Situ Aluminum Alloy Coating on Magnesium by Hot Pressing**  
Yamanoglu R.  
ACTA METALLURGICA SINICA-ENGLISH LETTERS, vol.28, no.8, pp.1059-1064, 2015 (SCI-Expanded)
32. **Characterisation of nickel alloy powders processed by spark plasma sintering**  
YAMANOĞLU R., Bradbury W., Karakulak E., Olevsky E. A., German R. M.  
POWDER METALLURGY, vol.57, no.5, pp.380-386, 2014 (SCI-Expanded)
33. **Investigation of corrosion and mechanical properties of Al-Cu-SiC-xNi composite alloys**  
Karakulak E., YAMANOĞLU R., Erten U., ZEREN A., ZOR S., ZEREN M.  
MATERIALS & DESIGN, vol.59, pp.33-37, 2014 (SCI-Expanded)
34. **PRODUCTION AND CHARACTERIZATION OF Al-xNi IN SITU COMPOSITES USING HOT PRESSING**  
Yamanoglu R.  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.50, no.1, pp.45-52, 2014 (SCI-Expanded)
35. **Effect of nickel on microstructure and wear behaviour of pure aluminium against steel and alumina counterfaces**  
YAMANOĞLU R., Karakulak E., ZEREN M., KOÇ F. G.  
INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, no.5, pp.289-295, 2013 (SCI-Expanded)
36. **Sintering and microstructure characteristics of 42CrMo4 steel processed by spark plasma sintering**  
YAMANOĞLU R., Bradbury W., Olevsky E. A., German R. M.  
METALS AND MATERIALS INTERNATIONAL, vol.19, no.5, pp.1029-1034, 2013 (SCI-Expanded)
37. **Effect of heat treatment on erosive wear behaviour of Ti6Al4V alloy**  
FİDAN S., AVCU E., Karakulak E., YAMANOĞLU R., ZEREN M., SINMAZÇELİK T.  
MATERIALS SCIENCE AND TECHNOLOGY, vol.29, no.9, pp.1088-1094, 2013 (SCI-Expanded)
38. **Effect of heat treatment on the tribological properties of Al-Cu-Mg/nanoSiC composites**  
YAMANOĞLU R., Karakulak E., ZEREN A., ZEREN M.  
MATERIALS & DESIGN, vol.49, pp.820-825, 2013 (SCI-Expanded)
39. **Effect of heat treatment conditions on microstructure and wear behaviour of Al<sub>14</sub>Cu<sub>2</sub>Ni<sub>2</sub>Mg alloy**  
Karakulak E., ZEREN M., YAMANOĞLU R.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.23, no.7, pp.1898-1904, 2013 (SCI-Expanded)
40. **Comparative evaluation of densification and grain size of ZnO powder compacts during microwave and pressureless spark plasma sintering**  
YAMANOĞLU R., Bradbury W. L., Olevsky E. A., German R. M.  
ADVANCES IN APPLIED CERAMICS, vol.111, no.7, pp.422-426, 2012 (SCI-Expanded)
41. **SOLIDIFICATION CHARACTERISTICS OF ATOMIZED AlCu<sub>4</sub>Mg<sub>1</sub>-SiC COMPOSITE POWDERS**  
YAMANOĞLU R., Zeren M., German R. M.  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.48, no.1, pp.73-79, 2012 (SCI-Expanded)
42. **MECHANICAL AND WEAR PROPERTIES OF PRE-ALLOYED MOLYBDENUM P/M STEELS WITH NICKEL ADDITION**  
YAMANOĞLU R., Karakulak E., ZEREN M.  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.48, no.2, pp.251-258, 2012 (SCI-Expanded)
43. **Microstructural investigation of as cast and PREP atomised Ti-6Al-4V alloy**  
YAMANOĞLU R., German R. M., Karagoz S., Bradbury W. L., ZEREN M., Li W., Olevsky E. A.  
POWDER METALLURGY, vol.54, no.5, pp.604-607, 2011 (SCI-Expanded)

44. **Effect of Nickel Addition and Porosity on Fracture Behaviour of Molybdenum Alloyed Powder Metallurgical Steel**  
KARAGOZ S., YAMANOĞLU R., YILMAZ A., ATAPEK Ş. H.  
MATERIALS TESTING, vol.52, no.4, pp.227-233, 2010 (SCI-Expanded)

#### Articles Published in Other Journals

1. **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)
2. **Ultrasonik Atomizasyon: Toz Üretiminde Alternatif Bir Yol**  
Akyıldız Y., Sarı S., Kaya O. F., Ymanoğlu R.  
Manufacturing Technologies and Applications, vol.4, no.2, pp.81-91, 2023 (Peer-Reviewed Journal)
3. **Effect of Intercritical Annealing on the Properties of Dual Phase Steel via Finite Element Method**  
Akman A., AKYILDIZ Y., YAMANOĞLU R.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.1, pp.103-106, 2023 (Peer-Reviewed Journal)
4. **INVESTIGATING THE EFFECT OF HEAT TREATMENT ON THE COLD FORGING OF 27MNB4 STEEL VIA CALPHAD METHODOLOGY AND FEM**  
AKYILDIZ Y., Kutsal U., Arslan Y., Akman A., KARKINLI A., SAGLAM M., YAMANOĞLU R.  
Konya mühendislik bilimleri dergisi (Online), vol.11, no.1, pp.59-70, 2023 (Peer-Reviewed Journal)
5. **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)
6. **Pitting Corrosion behaviour of Austenitic Stainless-Steel Coated on Ti6Al4V Alloy in Chloride Solutions**  
Ymanoğlu R.  
Advances in Materials Science, vol.21, no.2, pp.5-15, 2021 (ESCI)
7. **Network distribution of molybdenum among pure titanium powders for enhanced wear properties**  
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45. **Production of 316L Stainless Steel Used In Biomedical Applications By Powder Metallurgy**  
Muratal O., YAMANOĞLU R.  
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019
46. **Surface Properties of Ultra-high Molecular Weight Polyethylene /Cellulose Based Polymer Composites**  
DANDAN DOĞANCI M., ÖZCAN S., DOĞANCI E., YAMANOĞLU R.  
International Congress of Academic and Applied Sciences-INTCACAS2018, Targovishte, Romania, 26 - 28 October 2018, pp.262-268
47. **Hurda Bakır Tellerin Titanyumun Mekanik Özelliklerine Etkisi**  
MURATAL O., YAMANOĞLU R.  
2. Uluslararası Multidisipliner Çalışmalar ve Yenilikçi Teknolojiler Sempozyumu, 19 - 21 October 2018, pp.250-253
48. **Farklı Toz Partikül Boyutlarının Saf Titanyumun Mekanik Özelliklerine Etkisi**  
MURATAL O., YAMANOĞLU R.  
2. Uluslararası Multidisipliner Çalışmalar ve Yenilikçi Teknolojiler Sempozyumu, 19 - 21 October 2018, pp.272-275
49. **Geri Kazanılmış Ti Partikül Takviyeli Alüminyum Kompozit Malzemelerin Toz Metalurjik Yöntemler ile Üretimi ve Karakterizasyonu**  
ÇÖL M., KOÇ F. G., YAMANOĞLU R.  
1st International Symposium on Light Alloys and Composite Materials (ISLAC18), 22 - 24 March 2018
50. **Production of Hard Nickel Particle Reinforced Ti6Al4V Matrix Composites by Hot Pressing**  
YAMANOĞLU R.  
20th International Conference on Composite Engineering and Technology, 10 - 11 May 2018
51. **Consolidation of carbonyl nickel powders by hot pressing**  
YAMANOĞLU R., DAOUD I.  
19. International Conference on Materials Processing and Analysis, 20 - 21 October 2017
52. **TRIBOLOGICAL STUDY OF COPPER ALLOY-BASED COMPOSITES REINFORCED WITH WC-W POWDERS PREPARED BY THE SPONTANEOUS INFILTRATION PROCESS OF THE LOOSE POWDER**  
DAOUD I., MIROUD D., YAMANOĞLU R.

14th International Scientific Congress Machines, Technologies, Materials, 13 - 17 September 2017, vol.3, pp.204-207

53. **Toz Metalurjik Magnezyum Alaşımlarının Üretimi**  
GÖKÇE OSMAN S., DAOUD I., YAMANOĞLU R.  
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54. **Toz Metalurjisi ile Bakır Kompozit Üretimi**  
IRMAK D., YAMANOĞLU R.  
Engineers of future International student symposium, 15 - 17 June 2017, pp.29
55. **Titanyum Esaslı Biyomalzemelerin Toz Metalurjik Yöntemlerle Üretimi**  
EFENDİ E., BEHNAN K., DAOUD I., YAMANOĞLU R.  
Engineers of future International student symposium, 15 - 17 June 2017, pp.19
56. **Sintering Properties of Mechanically Alloyed Ti-5Al-2.5 Fe**  
YAMANOĞLU R., EFENDİ E., DAOUD I.  
19th International Conference on Materials Processes and Applications, 26 - 27 May 2017
57. **304L Stainless Steel-Ti Joining by Powder Metallurgical Uniaxial Pressing under Vacuum Ambient**  
TELLİ M. B., YAMANOĞLU R., SANLI H. G.  
7th International Advances in Applied Physics and Materials Science Congress Exhibition(APMAS2017), 22 April 2017 - 26 April 2019, vol.1, pp.35
58. **TOZ METALURJİK YÖNTEMLE ÜRETİLMİŞ ÖN ALAŞIMLI Ni Cr Si Fe B C TOZLARI İÇİN SİNER PARAMETRELERİNİN BELİRLENMESİ**  
Ararat Ö., Yamanoglu R., Zeren M.  
IMSP 2016, Denizli, Turkey, 12 - 14 October 2016, pp.1-5
59. **Nickel coating on aluminum by hot pressing**  
YAMANOĞLU R., EFENDİ E.  
World PM2016, 09 October 2016 - 13 October 2106
60. **Using fly ash as a reinforcement to increase wear resistance of pure magnesium**  
KARAKULAK E., YAMANOĞLU R., ZEREN M.  
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61. **Impact of Ni addition on the dry sliding friction of WC Based MMC prepared by the spontaneous infiltration process of the loose Powder**  
DAOUD I., EFENDİ E., YAMANOĞLU R., MIROUD D.  
APMAS 2016, 1 - 03 June 2016, vol.1, pp.129
62. **A study on SEM investigation of Atomized Powders**  
YAMANOĞLU R., ZEREN M.  
European Congress on Advanced Materials and Processes, 12 - 15 September 2015
63. **A Study on solidification characteristics of Al SiC MMC powders atomised by PREP process**  
YAMANOĞLU R., ZEREN M.  
European Congress on Advanced Materials and Processes, 12 - 15 September 2015, pp.481
64. **Rapid Solidification of Ti6Al4V Alloy Powder Produced bby PREP technique**  
YAMANOĞLU R., ÇELEBİ M., ÇELEBİ A.  
PM Titanium 2015 The 3rd Conference on Powder Processing, 31 August - 03 September 2015
65. **Consolidation of Al nanoSiC Composites by Spark Plasma Sintering**  
YAMANOĞLU R., Eugene O.  
ICSMT 2015, 14 - 15 June 2015
66. **MECHANICAL PROPERTIES OF Al Ni CAST ALLOYS** Koc Funda Gul Karakulak Erdem Yamanoglu  
Ridvan Zeren M 2016  
KOÇ F. G., KARAKULAK E., YAMANOĞLU R., ZEREN M.  
23rd International Conference on Metallurgy and Materials, 21 - 23 May 2014
67. **PRODUCTION AND CHARACTERIZATION OF HOT PRESSED Al-Ni ALLOYS**  
Karakulak E., YAMANOĞLU R., ZEREN M., Dundar E. E.  
23rd International Conference on Metallurgy and Materials, Brno, Czech Republic, 21 - 23 May 2014, pp.1032-

68. **MECHANICAL PROPERTIES OF Al-Ni CAST ALLOYS**  
KOÇ F. G., Karakulak E., YAMANOĞLU R., ZEREN M.  
23rd International Conference on Metallurgy and Materials, Brno, Czech Republic, 21 - 23 May 2014, pp.1283-1287
69. **Atomizasyon yöntemi ile metal matrisli kompozit üretimi**  
YAMANOĞLU R., KARAKULAK E., ZEREN M.  
II. Ulusal Ege Kompozit Sempozyumu, Turkey, 7 - 09 November 2013, pp.182-188
70. **HOT PRESSING BEHAVIOR OF TITANIUM POWDERS WITH NICKEL REINFORCEMENTS**  
YAMANOĞLU R., KARAKULAK E., ZEREN M.  
45th International October Conference on Mining and Metallurgy, 16 - 19 October 2013, pp.120-123
71. **Sıcak pres ile Al5MgXAl2O3 kompozit üretimi**  
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II. Ulusal Ege Kompozit Malzemeler Sempozyumu, 15 September 2013
72. **Investigation of corrosion behavior of Al-SiC-xNi composite alloys,**  
YAMANOĞLU R., KARAKULAK E., Erten Ü., ZEREN A., ZOR S., ZEREN M., Ünal İ.  
10th International Electrochemistry Meeting in Turkey, 4 - 08 September 2013, pp.58
73. **Investigation of Corrosion Behavior of Al-SiC-xNi Composite Alloys**  
YAMANOĞLU R., KARAKULAK E., ZEREN A., ZOR S., ZEREN M.  
10. International Electrochemistry Meeting in Turkey, 4 - 08 September 2013
74. **TOZ METALURJİK YÖNTEMLE ÜRETİLMİŞ ÖN ALAŞIMLI NiCrSiFe Bor Karbür TOZLARI İÇİN SİNER PARAMETRELERİNİN BELİRLENMESİ**  
ZEREN M., KARAKULAK E., YAMANOĞLU R.  
Euro PM 2012 Congress and Exhibition , 2012, 09 September 2012
75. **H Wendel S40 Ray Çeliğinde Yorulma Çatlaklarının Mikroyapısal Karakterizasyonu**  
ÇÖL M., KOÇ F. G., YAMANOĞLU R.  
2nd International Symposium on Railway System Engineering, 9 - 11 October 2012
76. **Tribological properties of vacuum hot pressed Al-Cu-Mg-SiC composites**  
YAMANOĞLU R., KARAKULAK E., ZEREN M.  
Euro PM 2012 Congress and Exhibition, 16 - 19 September 2012, pp.15
77. **Tribological properties of vacuum hot pressed Al-Cu-Mg-SiC composites**  
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European International Powder Metallurgy Congress and Exhibition, Euro PM 2012, Basel, Switzerland, 16 - 19 September 2012, vol.1
78. **Production of silver powders by prep atomization**  
Karakulak E., YAMANOĞLU R., ZEREN M.  
European International Powder Metallurgy Congress and Exhibition, Euro PM 2012, Basel, Switzerland, 16 - 19 September 2012, vol.1
79. **Consolidation of atomized Al SiC composite powders by hot pressing**  
YAMANOĞLU R., KARAKULAK E., ZEREN M.  
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80. **Influence of powder preparation on consolidation behavior and properties of tungsten-copper alloys**  
Li W., Daoush W. M., Bothate A., Abdel-Hamid Z., YAMANOĞLU R., Olevsky E. A., Moustafa S., German R. M.  
2010 International Conference on Powder Metallurgy and Particulate Materials, PowderMet 2010, Hollywood, FL, United States Of America, 27 - 30 June 2010, pp.245-257
81. **Powder fabrication role in the sintering and properties of tungsten-copper alloys**  
German R. M., Li W., Moustafa S., Abdel-Hamid Z., Daoush W. M., Bothate A., YAMANOĞLU R., Olevsky E.  
World Powder Metallurgy Congress and Exhibition, World PM 2010, Florence, Italy, 10 - 14 October 2010, vol.3
82. **Sinter sertleştirilmiş toz metalurjik bir çelikte hata karakterizasyonu**  
KARAGÖZ Ş., YAMANOĞLU R., ATAPEK Ş. H.

V. Uluslararası İleri Teknolojiler Sempozyumu, Karabük, Turkey, 13 - 15 May 2009, pp.957-962

83. **Titanyum esaslı implant malzemelerinde makro ve mikro incelemeler gözenek dağılımı bağ dokusu ilişkisi**

KARAGÖZ Ş., ŞARLAK A., YAMANOĞLU R., ATAPEK Ş. H.

II. Ulusal Yapay Organlar ve Desek Sistemleri Kongresi, Antalya, Turkey, 24 - 26 April 2009, pp.18-19

84. **Toz metalurjik bir çelikte fraktografik etüd**

Karagöz Ş., Atapek Ş. H., Yamanoglu R.

V. Uluslararası Toz Metalurjisi Konferansı, Ankara, Turkey, 8 - 12 October 2008, pp.421-431

## Academic and Administrative Experience

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2022 - Continues **Head of Department**

Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği

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## Courses

Metalurji Laboratuvarı 1, Undergraduate, 2023 - 2024

Metalurji Laboratuvarı 2, Undergraduate, 2022 - 2023

Toz Metalurjisi, Undergraduate, 2023 - 2024

Bilgisayar Destekli Çizim, Undergraduate, 2022 - 2023

Metalurji ve Malzeme Mühendisliğinde Ekonomik ve Çevresel Faktörler, Undergraduate, 2023 - 2024

Metalurji ve Malzeme Mühendisliğine Giriş, Undergraduate, 2023 - 2024

Mühendislik Malzemeleri, Undergraduate, 2022 - 2023

7. Dönem Projesi, Undergraduate, 2023 - 2024

Malzeme Üretim Teknikleri, Undergraduate, 2022 - 2023

Uzmanlık Alan Dersi, Postgraduate, 2023 - 2024

Bitirme Çalışması, Undergraduate, 2023 - 2024

Bilgisayar Destekli Teknik Çizim, Undergraduate, 2011 - 2012

## Advising Theses

Yamanoglu R., Co-Cr alaşımının eklemeli imalat ve basınç destekli sinterleme ile üretimi ve karakterizasyonu, Postgraduate, M.KIRAÇ(Student), 2023

Yamanoglu R., Gaz atomizasyonu ile kalay ve bakır esaslı metal tozu üretimi, Postgraduate, O.MURATAL(Student), 2023

Yamanoglu R., AlSi10Mg alaşımının seçici lazer ergitme ve basınç destekli sinterleme ile üretimi ve karakterizasyonu, Postgraduate, Y.AKYILDIZ(Student), 2022

Yamanoglu R., Toz metalurjisi ile üretilen Ti-HA biyokompozit kaplamanın biyomedikal alanda kullanılan titanyum alaşımlarının özelliklerine etkisinin incelenmesi, Postgraduate, H.İSMAİL(Student), 2022

Yamanoglu R., Ti6Al4V alaşımının sert nikel alaşım tozları ile kaplanması ve aşınma özelliklerinin geliştirilmesi, Postgraduate, O.ÇAVUŞOĞLU(Student), 2020

Yamanoglu R., Kimyasal yöntemlerle gümüş tozu üretimi ve titanyumun özelliklerine etkisinin incelenmesi, Postgraduate, S.ERKAN(Student), 2019

Yamanoglu R., Ti4Al4Mo ve Ti6Al4V alaşımlarının sıcak pres ile üretimi ve erozif aşınma davranışlarının incelenmesi, Postgraduate, K.ÖZDEMİR(Student), 2018

Yamanoglu R., Sıcak pres ile metal partikül takviyeli magnezyum kompozitlerin üretimi ve kaplanması, Postgraduate, O.SİNAN(Student), 2018

Yamanoglu R., Mekanik alaşımlama ile üretilen Ti-5Al-2,5Fe-xCu-yAg alaşımlarının sinterlenmesi ve karakterizasyonu, Postgraduate, E.EFENDİ(Student), 2017



## Student Project

R & D Project, Eklemeli İmalata Yönelik Gaz Atomizasyonu ile Cu-Al-Ni Tozunun Üretimi ve Karakterizasyonu, Kocaeli University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2023 - Continues

## Activities in Scientific Journals

Journal Of Mining And Metallurgy Section B-Metallurgy, Assistant Editor/Section Editor, 2021 - Continues  
CRYSTALS, Special Issue Editor, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

Eklemeli İmalat Derneği, Member, 2023 - Continues, Turkey  
American Association for Science and Technology, Member of Science Committee, 2017 - Continues, United States Of America

## Scientific Refereeing

COATINGS, SCI Journal, December 2023  
CANADIAN METALLURGICAL QUARTERLY, SCI Journal, November 2023  
MATERIALS RESEARCH EXPRESS, SCI Journal, November 2023  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, SCI Journal, November 2023  
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), Other Indexed Journal, November 2023  
METALS, SCI Journal, November 2023  
MATERIALS RESEARCH, SCI Journal, November 2023  
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Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), Other Indexed Journal, November 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Kocaeli University, Turkey, November 2023  
Project Supported by Higher Education Institutions, BAP Infrastructure, Kütahya Dumlupınar University, Turkey, November 2023  
VIRTUAL AND PHYSICAL PROTOTYPING, SCI Journal, October 2023  
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TUNGSTEN, Journal Indexed in ESCI, August 2023  
Project Supported by Higher Education Institutions, BAP Research Project, Erciyes University, Turkey, August 2023  
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INTERNATIONAL JOURNAL OF MATHEMATICAL MODELS AND METHODS IN APPLIED SCIENCES, SCI Journal, June 2023  
JOURNAL OF MINING AND METALLURGY, SECTION B: METALLURGY, SCI Journal, June 2023  
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JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, SCI Journal, June 2023  
TUBITAK Project, 1071-Uluslararası Araştırma Fonlarından Yararlanma Kapasitesinin ve Uluslararası Ar-Ge İşbirliklerine Katılımın Arttırılmasına Yönelik Destek Programı , Ozyegin University, Turkey, June 2023  
TUBITAK Project, 1071-Uluslararası Araştırma Fonlarından Yararlanma Kapasitesinin ve Uluslararası Ar-Ge İşbirliklerine Katılımın Arttırılmasına Yönelik Destek Programı , Ege University, Turkey, June 2023  
TUBITAK Project, 1071-Uluslararası Araştırma Fonlarından Yararlanma Kapasitesinin ve Uluslararası Ar-Ge İşbirliklerine Katılımın Arttırılmasına Yönelik Destek Programı , Kahramanmaraş Sutcu Imam University, Turkey, June 2023  
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JOURNAL OF MATERIALS SCIENCE AND TECHNOLOGY, SCI Journal, April 2023  
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EU Supported Other Project, European Union, Belgium, April 2023  
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Project Supported by Higher Education Institutions, BAP Research Project, Ostim Technical University, Turkey, February 2023  
JOURNAL OF MATERIALS SCIENCE AND TECHNOLOGY, SCI Journal, January 2023  
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JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, Journal Indexed in SCI-E, February 2021  
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MATERIALS TODAY COMMUNICATIONS, Journal Indexed in SCI-E, November 2020  
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EU Supported Other Project, The Eureka Association AISBL, Belgium, October 2020  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, Journal Indexed in SCI-E, September 2020  
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PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, February 2020  
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JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, Journal Indexed in SCI-E, January 2019

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PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCI-E, March 2018  
RARE METALS, Journal Indexed in SCI-E, December 2017  
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, Journal Indexed in SCI-E, October 2017  
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, Journal Indexed in SCI-E, April 2017  
JOURNAL OF MATERIALS RESEARCH, Journal Indexed in SCI-E, March 2017  
HIGH TEMPERATURE MATERIALS AND PROCESSES, Journal Indexed in SCI-E, March 2017  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, February 2017  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, February 2017  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, October 2016  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, May 2016  
FP7 Project, FP7 Project, European Commission, Belgium, October 2015  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, May 2015  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, February 2015  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, January 2015  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, August 2014  
JOURNAL OF MATERIALS RESEARCH, Journal Indexed in SCI-E, March 2014  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, January 2014  
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, October 2013

## Scientific Research / Working Group Memberships

Kocaeli Üniversitesi Biyoteknoloji Araştırma Grubu, Kocaeli University, Türkiye, <https://avesis.kocaeli.edu.tr/arastirma-grubu/koubag>, 2023 - Continues

## Metrics

Publication: 174  
Citation (WoS): 468  
Citation (Scopus): 502  
H-Index (WoS): 13  
H-Index (Scopus): 14

## Congress and Symposium Activities

The 54th International October Conference on Mining and Metallurgy, Session Moderator, Zlatibor, Serbia, 2023  
The 54th International October Conference on Mining and Metallurgy, Invited Speaker, Zlatibor, Serbia, 2023

## Research Areas

Metallurgical and Materials Engineering, Engineering and Technology

## Entrepreneurship Activities

Limited, ALPOMET MÜHENDİSLİK DANIŞMANLIK YAZILIM İMALAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ, 19  
September 2023, Co-Founder