

## Res. Asst. Burak ATİK

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2020 - Continues

Postgraduate, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2016 - 2020

Undergraduate, Bayburt University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2012 - 2016

### Foreign Languages

English, B1 Intermediate

### Dissertations

Postgraduate, CpTi Üzerine Kitin TiO<sub>2</sub> SiC ve h-BN İnce Filmler Kaplanarak Biyomimetik Yüzeyler Elde Edilmesi, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2020

### Research Areas

Biomedical Engineering, Biomechanics, Mechanical Engineering, Construction and Manufacturing, Metallurgical and Materials Engineering

### Academic Titles / Tasks

Research Assistant, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2019 - Continues

### Courses

Makine Laboratuvarı-I, Undergraduate, 2023 - 2024

Makine Laboratuvarı-II, Undergraduate, 2022 - 2023

Makine Laboratuar-I, Undergraduate, 2022 - 2023

Makine Laboratuvarı II, Undergraduate, 2021 - 2022

Makine Lab-II, Undergraduate, 2020 - 2021

Makine Laboratuvarı I, Undergraduate, 2021 - 2022

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

- I. **Analysis of electrochemical corrosion performance of 316L stainless steel fabricated and textured by selective laser melting**  
BOZKURT Y. B., SEÇER KAVASOĞLU Y., ATİK B., KOVACI H., ÇELİK A.  
Journal of Manufacturing Processes, vol.119, pp.293-304, 2024 (SCI-Expanded)
- II. **Pitting corrosion performance of plasma oxidized Cp-Ti and effects of fabrication methods**  
ATİK B., BOZKURT Y. B., KAVASOĞLU Y., KOVACI H., ÇELİK A.  
Surface and Coatings Technology, vol.478, 2024 (SCI-Expanded)
- III. **Comparison study of corrosion behavior for chitosan coated Ti6Al4V alloy produced by selective laser melting and forging**  
BOZKURT Y. B., KAVASOĞLU Y., ATİK B., KOVACI H., UZUN Y., ÇELİK A.  
PROGRESS IN ORGANIC COATINGS, vol.182, 2023 (SCI-Expanded)
- IV. **Wear and corrosion properties of CP-titanium coated with Chitin-Ceramic nanocomposites**  
ÇELİK A., ATİK B., UZUN Y., BOZKURT Y. B., KOVACI H.  
MATERIALS CHEMISTRY AND PHYSICS, vol.303, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Synthesis and Coating with Electrophoretic Deposition of ZIF-8 for the Improvement of Surface Properties of CoCrW Alloy**  
Uzun Y., Alptekin A., Tüzemen Ş. M., Atik B., Bozkurt Y. B., Çelik A.  
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.8, no.2, pp.138-143, 2024 (Peer-Reviewed Journal)
- II. **Investigation of the Effect of Bioactive Glass Coating on the Corrosion Behavior of Pre-treated Ti6Al4V Alloy**  
Tüzemen Ş. M., Bozkurt Y. B., Atik B., Uzun Y., Çelik A.  
Türk Doğa ve Fen Dergisi, no.1, pp.87-90, 2024 (Peer-Reviewed Journal)
- III. **Electrochemical Impedance Spectroscopy Analysis of 45S5 Bioglass Coating on After Oxidation of CoCrW Alloy**  
Tüzemen Ş. M., Bozkurt Y. B., Atik B., Uzun Y., Çelik A.  
Türk Doğa ve Fen Dergisi, no.1, pp.82-85, 2024 (Peer-Reviewed Journal)
- IV. **THE BIOMECHANICAL ANALYSIS FOR BIODEGRADABLE PURE MAGNESIUM BONE SCREWS UNDER THREE POINT BENDING AND TORSIONAL TEST**  
Atik B., Bozkurt Y. B., Seçer Kavasoglu Y., Uzun Y., Kovaci H., Çelik A.  
Journal of Selcuk-Technic, no.Özel Sayı, pp.39-46, 2020 (Conference Book)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and Coating with Electrophoretic Deposition of ZIF-8 for the Improvement of Surface Properties of CoCrW Alloy**  
Uzun Y., Alptekin A., Tüzemen Ş. M., Atik B., Bozkurt Y. B., Çelik A.  
International Trend of Tech Symposium 2024, İstanbul, Turkey, 7 - 08 December 2024, pp.1-2
- II. **Electrochemical Impedance Spectroscopy Analysis of Time-Dependent Change of Biodegradable CP-Magnesium in Bone Cement**  
Erdoğan Ö., Seçer Kavasoglu Y., Tüzemen Ş. M., Atik B., Kovaci H., Uzun Y.

"5th International Conference on Advanced Engineering Technologies (ICADET 2024), Bayburt, Turkey, 25 - 27 September 2024, pp.830

- III. **A Study on Tailoring the Hydrophilicity Capacity of CP-Mg the Correlation of Bio-Corrosion Character and Surface Energy**  
Atik B., Tüzemen Ş. M., Erdoğan Ö., Seçer Kavasoglu Y., Bozkurt Y. B., Çelik A.  
5th International Conference on Advanced Engineering Technologies (ICADET 2024), Bayburt, Turkey, 25 - 27 September 2024, pp.839
- IV. **The Effect of Varying OCP Times on Tribocorrosion Behavior of Naturally Passivated Ti6Al4V Alloy in Salt Water**  
Seçer Kavasoglu Y., Erdoğan Ö., Atik B., Tüzemen Ş. M., Kovacı H., Uzun Y.  
"5th International Conference on Advanced Engineering Technologies (ICADET 2024), Bayburt, Turkey, 25 - 27 September 2024, pp.1181
- V. **Improving the Bio-tribocorrosion Performance of Beta-type Ti Alloy Using Electrophoretic Coating Method**  
Tüzemen Ş. M., Atik B., Seçer Kavasoglu Y., Erdoğan Ö., Bozkurt Y. B., Çelik A.  
5th International Conference on Advanced Engineering Technologies (ICADET 2024), Bayburt, Turkey, 25 - 27 September 2024, pp.994
- VI. **THE INFLUENCE OF DESIGN PATTERNS ON THE MECHANICAL PROPERTIES OF MEW-PRODUCED PCL SAMPLES**  
Bozkurt Y. B., Seçer Kavasoglu Y., Atik B., Kovacı H., Uzun Y., Çelik A.  
MUNZUR 6. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Tunceli, Turkey, 24 - 26 May 2024, pp.289-296
- VII. **EFFECT OF PH ON BIODEGRADABILITY FOR POLYCAPROLACTONE PRODUCED BY MEW**  
Bozkurt Y. B., Atik B., Kavasoglu Y. S., Kovacı H., Uzun Y., Çelik A.  
MUNZUR 6. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Tunceli, Turkey, 24 - 26 May 2024, pp.282-288
- VIII. **IMPROVEMENT OF EIS PERFORMANCE FOR Ti6Al4V ALLOY WITH MEW-PRODUCED PLA/HA COMPOSITE COATING**  
Bozkurt Y. B., Seçer Kavasoglu Y., Atik B., Kovacı H., Uzun Y., Çelik A.  
17th INTERNATIONAL İSTANBUL SCIENTIFIC RESEARCH CONGRESS ON LIFE, ENGINEERING, ARCHITECTURE, AND MATHEMATICAL SCIENCES, İstanbul, Turkey, 28 - 30 April 2024, pp.605-615
- IX. **THE ELECTROCHEMICAL CORROSION PERFORMANCE OF COATED BIODEGRADABLE PURE MAGNESIUM BY MELT ELECTROWRITING**  
Bozkurt Y. B., Atik B., Seçer Kavasoglu Y., Kovacı H., Uzun Y., Çelik A.  
17TH INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS ON LIFE, ENGINEERING, ARCHITECTURE, AND MATHEMATICAL SCIENCES, İstanbul, Turkey, 28 - 30 April 2024, pp.534-542
- X. **Biomimetic Approach: Innovative Design Solutions from Structures Inspired by Nature**  
Çelik A., Seçer Kavasoglu Y., Atik B., Kovacı H., Bozkurt Y. B., Uzun Y., Aslan Çakır M., Tüzemen Ş. M.  
7th International Conference on Advances in Natural and Applied Sciences (ICANAS 2024), Antalya, Turkey, 17 April - 20 May 2024, pp.1
- XI. **Investigation of the Effect of Bioactive Glass Coating on the Corrosion Behavior of Pre-treated Ti6Al4V Alloy**  
Tüzemen Ş. M., Bozkurt Y. B., Atik B., Uzun Y., Çelik A.  
6 th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES ANTALYA, TURKEY ICOLES 2023, Antalya, Turkey, 2 - 05 November 2023, pp.9
- XII. **Electrochemical Impedance Spectroscopy Analysis of 45S5 Bioglass Coating on After Oxidation of CoCrW Alloy**  
Tüzemen Ş. M., Bozkurt Y. B., Atik B., Uzun Y., Çelik A.  
6 th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES ANTALYA, TURKEY ICOLES 2023, Antalya, Turkey, 2 - 05 November 2023, pp.10
- XIII. **Comparison of Electrochemical Corrosion Performances Using Variable Scan Rates on Surfaces with Different Layer Thicknesses**  
Bozkurt Y. B., Atik B., Kovacı H., Yetim T., Çelik A.

International Conference on Advances in Engineering, Architecture, Science and Technology, Erzurum, Turkey, 15 - 17 December 2021, pp.660

- XIV. **An experimental study of erosion corrosion behavior for passive metals**  
BOZKURT Y. B., SEÇER Y., ATİK B., KOVACI H., YETİM A. F., ÇELİK A.  
1st International Conference on Advances in Engineering, Architecture, Science and Technology, Erzurum, Turkey, 15 - 17 December 2021
- XV. **ANALYSIS OF FLOW ACCELERATED ELECTROCHEMICAL CORROSION PROPERTIES OF DIFFERENT METALLIC BIOMATERIALS**  
Bozkurt Y. B., Atik B., Kovacı H., Uzun Y., Çelik A.  
6nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'21), Nevşehir, Turkey, 26 - 28 November 2021, pp.269-273
- XVI. **Improving Electrochemical Corrosion Properties of Ti45Nb by Composite Coating**  
ATİK B., BOZKURT Y. B., KOVACI H., UZUN Y., ÇELİK A.  
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Alanya, Turkey, 21 - 23 October 2020, pp.654-657
- XVII. **Dry Wear Behaviour of Bio-ceramic Coated cp-Ti by Electrophoretic Deposition**  
Bozkurt Y. B., Atik B., Kovacı H., Yetim A. F., Çelik A.  
5th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 21 - 23 October 2020, pp.580
- XVIII. **The biomechanical analysis for biodegradable pure magnesium bone screws under three point bending and torsional test**  
ATİK B., BOZKURT Y. B., SEÇER Y., UZUN Y., KOVACI H., ÇELİK A.  
9th International Conference on Advanced Technologies, İstanbul, Turkey, 10 - 12 August 2020
- XIX. **Investigation of tribocorrosion behavior of 316L coated H-BN with electrophoretic deposition technique**  
BOZKURT Y. B., ATİK B., KOVACI H., YETİM A. F., ÇELİK A.  
9th International Conference on Advanced Technologies, İstanbul, Turkey, 10 - 12 August 2020
- XX. **The Investigation of Pull Out Performance For Pure Magnesium Bone Screws in Biodegradation Perspective**  
Atik B., Atila A., Bozkurt Y. B., Kovacı H., Çelik A.  
5TH International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019, pp.2437
- XXI. **Biyouyumluluk perspektifinde östenitik paslanmaz çelik, beta titanyum ve alfabeta titanyum alaşımlarının tribokorozyon performanslarının incelenmesi**  
ATİK B., BOZKURT Y. B., KOVACI H., YETİM T., ÇELİK A.  
Uluslararası Fen, Matematik ve Mühendislik Kongresi-Ege Üniversitesi, İzmir, Turkey, 8 - 10 October 2019

## Expert Reports

- I. **T.C. ERZURUM 1. ASLİYE HUKUK MAHKEMESİ'NE BİLİRKİŞİ RAPORU**

Atik B.

T.C. ERZURUM 1. ASLİYE HUKUK MAHKEMESİ, pp.2, Erzurum, 2020

## Supported Projects

BOZKURT Y. B., KOVACI H., ÇELİK A., SEÇER KAVASOĞLU Y., UZUN Y., ATİK B., Project Supported by Higher Education Institutions, Biyoyazıcı ile Üretilmiş Polimerik Stentlerin Biyobozunur Özelliklerinin İyileştirilmesi, 2023 - Continues  
ÇELİK A., BOZKURT Y. B., ATİK B., Project Supported by Higher Education Institutions, Biyometik perspektifle işlevselleştirilmiş biyoseramik kaplı Ti6Al4V alaşımının aşınma ve biyokorozyon özelliklerinin incelenmesi, 2022 - Continues

Bozkurt Y. B., Atik B., Seer Kavasoglu Y., Uzun Y., Kovaci H., Tuzemen S. M., Erdogan O., Project Supported by Higher Education Institutions, Eklemeli İmalat ile Üretilen AISI 316L Paslanmaz Çelik Parçaların Yüzey Özelliklerinin Lazer İşleme ile İyileştirilmesi, 2024 - 2026

Atik B., Gokođlan H., Bulut T., Usta Y., TUBITAK Project, 3 Boyutlu Yazıcı ile Tribokorozyon Test Ünitesinin Üretilmesi, 2024 - 2025

BOZKURT Y. B., KOVACI H., TOTİK Y., UZUN Y., ATİK B., TÜZEMEN S. M., ÇELİK A., SEÇER KAVASOĞLU Y., Project Supported by Higher Education Institutions, Ar-Ge ve İnovasyon Merkezinin Kurulması, 2023 - 2024

EJDER APAY S., NAİLOĞLU M., ATİK B., Project Supported by Higher Education Institutions, Emzirme Beşiđi, 2021 - 2024

ÇELİK A., ATİK B., Project Supported by Higher Education Institutions, CpTi Üzerine Kitin TiO2 SiC ve h-BN İnce Filmler Kaplanarak Biyomimetik Yüzeyler Elde Edilmesi, 2020 - 2021

## Patent

Ejder Apay S., Atik B., Breast Feeding Cradle, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/TR2022/004 , Standard Registration, 2022

## Scientific Research / Working Group Memberships

İleri Fonksiyonel Malzemeler Ve Yüzeyler Araştırma Grubu, Ataturk University, Turkey,  
<https://avesis.atauni.edu.tr/ResearchTeamSite/afs>, 2019 - Continues

## Metrics

Publication: 30

Citation (WoS): 8

Citation (Scopus): 16

H-Index (WoS): 1

H-Index (Scopus): 2