

## Assoc. Prof. Yakup UZUN

### Personal Information

Web: <https://avesis.atauni.edu.tr/yakup.uzun>

### International Researcher IDs

ScholarID: tYQANywAAAAJ

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ScopusID: 57201385201

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### Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Turkey 2014 - 2018

Postgraduate, Ataturk University, Mühendislik Fakültesi, Turkey 2010 - 2014

### Certificates, Courses and Trainings

Project Management, ATATEKNOKENT BÜNYESİNDEKİ FİRMALARIN ULUSLARARASILAŞMA VE AB PROJE YAZMA YETKİNLİKLERİNİN ARTIRILMASI, KUZEYDOĞU KALKINMA AJANSI, 2021

### Research Areas

Engineering and Technology

### Academic and Administrative Experience

ATATEKNOKENT GENEL MÜDÜR YARD., Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2019 - Continues

Assistant Director of Vocational School, Kafkas University, Kazım Karabekir Technical Sciences Vocational School, Department Of Mechanical And Metal Technologies, 2017 - 2018

Head of Department, Kafkas University, Kazım Karabekir Technical Sciences Vocational School, Department Of Mechanical And Metal Technologies, 2011 - 2018

### Courses

MEKANİK METALURJİ2, Postgraduate, 2022 - 2023

PLAZMA TEKNİĞİ, Doctorate, 2022 - 2023

MEKANİK METALURJİ1, Postgraduate, 2022 - 2023, 2020 - 2021

Makina Mühendisliğine Giriş, Undergraduate, 2022 - 2023

Postgraduate, 2021 - 2022, 2020 - 2021

measurement and control, Undergraduate, 2021 - 2022, 2020 - 2021

Statik, Undergraduate, 2020 - 2021

Ölçme Tekniği ve Değerlendirme, Undergraduate, 2020 - 2021

İMAL USULLERİ 2, Undergraduate, 2020 - 2021  
Bitirme Projesi I, Undergraduate, 2020 - 2021  
Static, Undergraduate, 2019 - 2020  
Bitirme Projesi, Undergraduate, 2019 - 2020

## Advising Theses

Uzun Y., ZIF-8 METAL ORGANİK ÇERÇEVE İLE KAPLAMANIN CoCrW ALAŞIMININ TRİBOLOJİK ÖZELLİKLERİNE ETKİSİNİN ARAŞTIRILMASI, Postgraduate, A.ALPTKİN(Student), 2024  
Uzun Y., OLTU TAŞI TOZU İLE KAPLANMIŞ BİYOMALZEMELERİN MEKANİK VE TRİBOLOJİK ÖZELLİKLERİNİN İNCELENMESİ, Postgraduate, E.DERSE(Student), 2024  
Uzun Y., Ti6Al4V ALAŞIMININ ELEKTROKİMYASAL VE BİYOUYUMLULUK ÖZELLİKLERİNİN METAL ORGANİK ÇERÇEVE KAPLAMA İLE İYİLEŞTİRİLMESİ, Postgraduate, H.KEHYA(Student), 2024  
Uzun Y., Seçici lazer ergitme yöntemiyle üretilen implant malzemelerinin elektroforetik biriktirme ile yüzey özelliklerinin geliştirilmesi, Postgraduate, B.TAŞ(Student), 2023  
Uzun Y., SEÇİCİ LAZER ERGİTME YÖNTEMİ İLE FARKLI PARAMETRELERDE ÜRETİLEN Ti6Al4V ALAŞIMININ ELEKTROFORETİK BİRİKTİRME İLE TRİBOLOJİK ÖZELLİKLERİNİN İYİLEŞTİRİLMESİ, Postgraduate, S.BİÇER(Student), 2023

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

- I. **ELECTROCHEMICAL EVALUATION OF Ti45Nb COATED WITH 63S BIOGLASS BY ELECTROPHORETIC DEPOSITION**  
UZUN Y.  
SURFACE REVIEW AND LETTERS, vol.30, no.11, 2023 (SCI-Expanded)
- II. **Corrosion Performance of Bioglass-Coated AZ31 Alloy under Static and Accelerated Flow Conditions**  
UZUN Y.  
Journal of Materials Engineering and Performance, vol.32, no.20, pp.9182-9197, 2023 (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)
- V. **A comprehensive study on the fatigue properties of duplex surface treated Ti6Al4V by plasma nitriding and DLC coating**  
YETİM A., KOVACI H., UZUN Y., TEKDIR H., ÇELİK A.  
Surface and Coatings Technology, vol.458, 2023 (SCI-Expanded)
- VI. **Tribocorrosion properties of plasma nitrided, Ti-DLC coated and duplex surface treated AISI 316L stainless steel**  
UZUN Y.  
SURFACE AND COATINGS TECHNOLOGY, vol.441, pp.1-9, 2022 (SCI-Expanded)
- VII. **The effects of boriding on metal-ceramic bond strength of Co-Cr alloy fabricated by selective laser melting**  
UZUN Y., YANIKOĞLU N., KOVACI H., YETİM A. F., ÇELİK A.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.35, no.14, pp.1576-1591, 2021 (SCI-Expanded)
- VIII. **Improvements in the static/dynamic strength of porcelain fused to metal dental crowns with surface protrusions produced by selective laser melting**

Taftali M., Turalioglu K., YETİM A. F., UZUN Y., AKPINAR S., YILDIZ F.

JOURNAL OF MANUFACTURING PROCESSES, vol.65, pp.112-118, 2021 (SCI-Expanded)

**IX. Effect of boronizing on the structural, mechanical and tribological properties of CoCrW dental alloy produced by selective laser melting**

Uzun Y., Kovacı H., Yetim A. F., Çelik A.

Industrial Lubrication and Tribology, vol.71, no.3, pp.348-356, 2019 (SCI-Expanded)

**X. Investigation of the usage possibility of CuO and CuS thin films produced by successive ionic layer adsorption and reaction (SILAR) as solid lubricant**

KOVACI H., AKALTUN Y., Yetim A. F., Uzun Y., ÇELİK A.

Surface and Coatings Technology, vol.344, pp.522-527, 2018 (SCI-Expanded)

## Articles Published in Other Journals

**I. TRIBOCORROSION PROPERTIES OF BORIDED AND Al<sub>2</sub>O<sub>3</sub>-COATED NiTi MATERIAL**

UZUN Y.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.15, 2022 (Peer-Reviewed Journal)

**II. High-Frequency Chest Wall Oscillation in Patients with COVID-19: A Pilot Feasibility Study**

Celik M., YAYIK A. M., KERGET B., Kerget F., Doymus O., Aksakal A., ÖZMEN S., Aslan M. H., UZUN Y.

EURASIAN JOURNAL OF MEDICINE, vol.54, no.2, pp.150-156, 2022 (ESCI)

## Books & Book Chapters

**I. KAYNAK TEKNOLOJİSİ**

Karadeniz S., Yetim A. F., Kovacı H., Uzun Y., Aslan M., Çelik A. (Editor)

Nobel Yayın Dağıtım, Ankara, 2020

## Refereed Congress / Symposium Publications in Proceedings

**I. THE INFLUENCE OF DESIGN PATTERNS ON THE MECHANICAL PROPERTIES OF MEW-PRODUCED PCL SAMPLES**

Bozkurt Y. B., Seçer Kavasoğlu Y., Atik B., Kovacı H., Uzun Y., Çelik A.

MUNZUR 6. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Tunceli, Turkey, 24 - 26 May 2024, pp.289-296

**II. EFFECT OF PH ON BIODEGRADABILITY FOR POLYCAPROLACTONE PRODUCED BY MEW**

Bozkurt Y. B., Atik B., Kavasoğlu Y. S., Kovacı H., Uzun Y., Çelik A.

MUNZUR 6. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Tunceli, Turkey, 24 - 26 May 2024, pp.282-288

**III. THE ELECTROCHEMICAL CORROSION PERFORMANCE OF COATED BIODEGRADABLE PURE MAGNESIUM BY MELT ELECTROWRITING**

Bozkurt Y. B., Atik B., Seçer Kavasoğlu 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

**IV. IMPROVEMENT OF EIS PERFORMANCE FOR Ti6Al4V ALLOY WITH MEW-PRODUCED PLA/HA COMPOSITE COATING**

Bozkurt Y. B., Seçer Kavasoğlu 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

**V. Biomimetic Approach: Innovative Design Solutions from Structures Inspired by Nature**

Çelik A., Seçer Kavasoğlu 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

- VI. **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
- VII. **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
- VIII. **Investigation of Wear Resistance of Electrophoretic Deposition onto Ti6Al4V Alloy**  
Uzun Y., Biçer S., Tüzemen Ş. M., Çelik A.  
3rd International Natural Science, Engineering and Materials Technology Conference, Gazimagusa, Cyprus (Kkct), 21 - 23 September 2023, pp.164-172
- IX. **The Improvement of Corrosion Performance of CoCrW Alloy with Bioglass Coating**  
Uzun Y., Taş B., Tüzemen Ş. M., Çelik A.  
3rd International Natural Science, Engineering and Materials Technology Conference, Gazimagusa, Cyprus (Kkct), 21 - 23 September 2023, pp.182-189
- X. **Improvement of Biocompatibility Properties of Boronized CoCr Alloys by Electrophoretic Deposition**  
Tüzemen Ş. M., Uzun Y., Çelik A., Yanıkoğlu N., Karsan O.  
ICADET, Bayburt, Turkey, 28 - 30 September 2022, pp.516-520
- XI. **Improvement of Biocompatibility Properties of Boronized CoCr Alloys by Electrophoretic Deposition**  
Tüzemen Ş. M., Uzun Y., Çelik A., Yanıkoğlu N., Karsan O.  
ICADET, Bayburt, Turkey, 28 - 30 September 2022, pp.516-520
- XII. **Improvement of Biocompatibility Properties of Boronized CoCr Alloys by Electrophoretic Deposition**  
Tüzemen Ş. M., Uzun Y., Çelik A., Yanıkoğlu N., Karsan O.  
ICADET, Bayburt, Turkey, 28 - 30 September 2022, pp.516-520
- XIII. **ID-22-BA-183 EFFICACY OF HIGH FREQUENCY CHEST WALL OSCILLATION IN COVID19 PATIENTS**  
Uzun Y., Yayık A. M., Kerget B.  
2. nd INTERNATIONAL ISTANBUL CONGRESS, İstanbul, Turkey, 28 - 29 September 2022, pp.119-120
- XIV. **ABDOMINAL PHYSIOTHERAPY DEVICE DESIGN**  
Uzun Y.  
5TH INTERNATIONAL CONGRESS OF MULTIDISCIPLINARY STUDIES IN MEDICAL SCIENCES, Ankara, Turkey, 23 - 25 September 2022, pp.88-93
- 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 Tribological Performance With Oxidation Process For Boronized Ti6Al4V Alloys**  
Bozkurt Y. B., Seçer Kavasoğlu Y., Kovacı H., Uzun Y., Çelik A.  
6th International Conference on Material Science and Technology in Cappadocia, Nevşehir, Turkey, 26 - 28 November 2021, pp.264-268
- XVII. **Analysis Of Flow Accelerated Electrochemical Corrosion Properties Of Different Metallic Biomaterials**  
Bozkurt Y. B., Atik B., Kovacı H., Uzun Y., Çelik A.  
6th International Conference on Material Science and Technology in Cappadocia, Nevşehir, Turkey, 26 - 28 November 2021, pp.259-263
- XVIII. **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

**XIX. 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

**XX. Study of corrosion and mechanical properties of welding with massive and flux cored wire in conventional and pulsed gas metal arc welding**

UZUN Y., KOVACI H., YETİM A. F., ÇELİK A.

4. International Mediterranean Science and Engineering Congress (IMSEC 2019), 25 - 27 April 2019

**XXI. The effects of boriding on the cytotoxicity of CoCrW dental crowns**

UZUN Y., KOVACI H., YETİM A. F., TAGHIZADEHGHALEHJOUGHİ A., ÇELİK A.

International Symposium on Boron, 17 - 19 April 2019

**XXII. A COMPARATIVE ANALYSIS OF WELD SEWING OF ST37 STEEL THAT WAS WELDED BY CONVENTIONAL AND SYNERGIC MACHINES**

UZUN Y., ÇELİK A., YETİM A. F.

ICWET 16 4. ULUSLAR ARASI KAYNAK TEKNOLOJİLERİ KONFERANSI VE SERGİSİ, 11 - 13 May 2016

## Other Publications

**I. DİJİTAL OLGUNLUK SEVİYE TESBİT RAPORO**

Uzun Y.

Other, pp.1-18, 2021

## 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

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

UZUN Y., Çelik M., Kamanlı A. F., Project Supported by Other Official Institutions, TELETIP HİZMETLERİNE YÖNELİK GİYİLEBİLİR HOLTERGELİŞTİRİLMESİ VE PROTOTİP İMALATI, 2023 - 2024

UZUN Y., YAYIK A. M., ÇELİK M., Project Supported by Higher Education Institutions, ABDOMİNAL MASAJ CİHAZI TASARIMI, 2022 - 2024

ÇELİK A., YANIKOĞLU N., UZUN Y., Project Supported by Higher Education Institutions, Estetik Açından Daha İyi ve Daha Dayanıklı Kuron Üretimi-2, 2021 - 2024

UZUN Y., ÇELİK A., YANIKOĞLU N., KARSAN O., TÜZEMEN Ş. M., Project Supported by Higher Education Institutions, Seçici Lazer ErgitmeSLE yöntemi ile üretilen CoCr ve Ti6Al4V alaşımlarının borlama sonrası Elektroforetik Biriktirme Electrophoretic DepositionEPD ile yüzey işlemi uygulanarak mekanik tribolojik ve elektrokimyasal özelliklerinin araştırılması, 2021 - 2023

UZUN Y., BAŞER Y., PEKİN M., Project Supported by Higher Education Institutions, TEKNOFEST 2022 ORTA İRTİFA ROKET YARIŞMASI, 2022 - 2022

UZUN Y., ÖZEN İ., Project Supported by Higher Education Institutions, Orman Yangınlarının Kontrolünün İnsansız Hava Araçları ile Sağlanması (TEKNOFEST), 2021 - 2021

UZUN Y., AKBAŞ F., BAŞER Y., Project Supported by Higher Education Institutions, TEKNOFEST YÜKSEK İRTİFA ROKET YARIŞMASI, 2021 - 2021

Uzun Y., Çelik M., Industrial Thesis Project, BİLGİSAYAR KONTROLLÜ GİYİLEBİLİR MEDİKAL SİSTEMLER GELİŞTİRİLMESİ, 2021 - 2021

UZUN Y., ALAN H., UYĞUR M. B., AKBAŞ F., ÇOŞKUN İ., BAŞER Y., Project Supported by Higher Education Institutions,

Teknofest orta irtifa roket yarışması, 2020 - 2021

Uzun Y., Çelik M., Karayel D., TUBİTAK Project, YÜKSEK FREKANSLI GÖĞÜS DUVARİSİLASYON TERAPİ CİHAZI GELİŞTİRİLMESİ, 2020 - 2020

## Patent

Uzun Y., Çelik M., Yayık A. M., ABDOMİNAL MASAJ CİHAZI, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/007221 , Standard Registration, 2022

Çelik A., Uzun Y., Yanıkoğlu N., Yetim A. F., METAL DESTEKLİ SERAMİK KURON, Utility Model, CHAPTER A Human Needs, The Invention Recourse Number: 2018/18565 , Standard Registration, 2018

Uzun Y., Yanıkoğlu N., ESTETİK AÇIDAN DAHA İYİ VE DAHA DAYANIKLI KURON ÜRETİMİ, Utility Model, CHAPTER A Human Needs, The Invention Recourse Number: 2018/18565 , Standard Registration, 2018

## Memberships / Tasks in Scientific Organizations

İPEKYOLU SİFED (İPEKYOLU SANAYİ VE İŞ ADAMLARI FEDERASYONU), Board Member, 2019 - Continues, Turkey

## Scientific Refereeing

CERAMICS INTERNATIONAL, SCI Journal, February 2024

SURFACE AND COATINGS TECHNOLOGY, SCI Journal, October 2023

TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, September 2022

TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TÜBİTAK, Turkey, September 2021

## Scientific Consultations

TÜBİTAK, Project Consultancy, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2022 - Continues

TÜBİTAK, Project Consultancy, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2021 - Continues

TUBİTAK, Project Consultancy, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2023 - 2023

## Tasks In Event Organizations

Uzun Y., DOĞU ANADOLU KARIYER FUARI(DAKAF), Social Activities, Erzurum, Turkey, Mart 2022

## Scientific Research / Working Group Memberships

Kalite Komisyonu, Ataturk University, Türkiye, <http://atakalite.atauni.edu.tr/>, 2022 - Continues

## Metrics

Publication: 37

Citation (WoS): 62

Citation (Scopus): 70

H-Index (WoS): 5

H-Index (Scopus): 6

## **Awards**

Uzun Y., İLHAM VEREN KAMU YÖNETİMİ PROJELERİ, Kalder Ankara Şubesi, March 2022

## **Representation and Promotion Activities**

Institutional Representation, kalder ankara şubesi, Turkey, Ankara, 2022 - 2022

## **Non Academic Experience**

Business Establishment Private, HAMLE MÜHENDİSİLİK, AR-GE  
ATA TEKNOKENT A.Ş.  
GEDİK KAYNAK SANAYİ TİCARET A.Ş  
ER-ŞAHSUVAROĞLU OTOMOTİV