

## Prof. Hikmet ALTUN

### Personal Information

Web: <https://avesis.atauni.edu.tr/haltun>

### International Researcher IDs

ScholarID: EviW6LgAAAAJ

ORCID: 0000-0002-3738-033X

Yoksis Researcher ID: 46281

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 1998 - 2003

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 1994 - 1998

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1990 - 1994

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Magnezyum Alaşımının Korozyonu ve FBB Kaplamaların Korozyon Davranışlarına Etkisi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2004

Postgraduate, Sıcak Daldırma Yöntemiyle Çeliğin Çinko ve Çinko Alüminyum Alaşımı ile Kaplanması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 1998

### Research Areas

Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing, Material, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Mechanical Properties, Corrosion and Corrosion Protection, Material Characterization, Metallic Materials, Engineering and Technology

### Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2014 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2009 - 2014

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2003 - 2009

Research Assistant, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1998 - 2003

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 1995 - 1998

### Academic and Administrative Experience

University Executive Board Member, Ataturk University, 2016 - 2020  
Member of the Senate, Ataturk University, 2016 - 2020  
Dean, Ataturk University, Mühendislik Fakültesi, 2016 - 2020  
Fakülte Yönetim Kurulu Üyesi, Ataturk University, Mühendislik Fakültesi, 2014 - 2020  
Fakülte Kurulu Üyesi, Ataturk University, Mühendislik Fakültesi, 2014 - 2020  
Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ataturk University, 2018 - 2019  
Vice Dean, Ataturk University, Mühendislik Fakültesi, 2014 - 2016

## Courses

Faz Diyagramları, Doctorate, 2023 - 2024  
Makine Mühendisliği Seçmeli Tasarım 2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Uzmanlık Alan Dersi (Dr), Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Makine Mühendisliği Seçmeli Tasarım 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Uzmanlık Alan Dersi (YL), Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Makine Mühendisliği Seçmeli Tasarım 2, Undergraduate, 2022 - 2023, 2021 - 2022  
Statik, Undergraduate, 2021 - 2022, 2020 - 2021  
Makine Mühendisliği Seçmeli Tasarım 1, Undergraduate, 2022 - 2023, 2021 - 2022  
Bitirme Projesi 2, Undergraduate, 2020 - 2021  
Bitirme Projesi 1, Undergraduate, 2021 - 2022  
Mukavemet 1, Undergraduate, 2021 - 2022  
Bitirme Projesi 1, Undergraduate, 2021 - 2022  
Bitirme Projesi 2, Undergraduate, 2020 - 2021  
Statik, Undergraduate, 2020 - 2021  
Mühendislik Mekaniği, Undergraduate, 2017 - 2018  
Mukavemet 2, Undergraduate, 2017 - 2018  
Bilgisayar Destekli Teknik Resim, Undergraduate, 2017 - 2018  
Teknik Resim, Undergraduate, 2017 - 2018  
Solidworks ile Modelleme ve Tasarım, Postgraduate, 2013 - 2014

## Advising Theses

Altun H., Elektrik ark sprej kaplama yöntemi ve anotlama işlemlerinin alüminyum ve çinko esaslı magnezyum alaşımlarının korozyon özelliklerine etkisi, Postgraduate, İ.DURNA(Student), 2022  
ALTUN H., Anotlama ve Elektrik Ark Sprej kaplama İşlemlerinin Magnezyum Alaşımlarının Yapısal, Korozyon ve Gerilmeli Korozyon Özelliklerine Etkilerinin İncelenmesi, Doctorate, R.ÇATAR(Student), 2019  
ALTUN H., Elektriksiz Ni-B Kaplamaların Magnezyum Alaşımlarının Korozyon Davranışına Etkisinin Belirlenmesi, Postgraduate, H.AKBARI(Student), 2014  
ALTUN H., Alüminyum Alaşımlarının Farklı Ortamlardaki Gerilmeli Korozyon Davranışının Belirlenmesi, Postgraduate, B.ÖZAKIN(Student), 2013  
ALTUN H., Kapakları parça içine gömülü çift takviyeli yapıştırma bağlantılarının mekanik özelliklerinin belirlenmesi, Postgraduate, Ş.ÇİTİL(Student), 2013  
ALTUN H., Magnezyum alaşımlarının farklı ortamlardaki gerilmeli korozyon davranışının incelenmesi, Postgraduate, R.ÇATAR(Student), 2013  
ALTUN H., Katodik Ark Fiziksel Buhar Biriktirme Tekniğiyle Yapılan Kaplamaların AZ91 Magnezyum Alaşımının Korozyon Özelliklerine Etkisinin İncelenmesi, Postgraduate, H.SİNİCİ(Student), 2009

## Jury Memberships

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, February, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, July, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Erzurum Teknik Üniversitesi, July, 2023

Post Graduate, Post Graduate, Atatürk Üniversitesi, May, 2023

Associate Professor Exam, Associate Professor Exam, İhsan Doğramacı Bilkent Üniversitesi, March, 2023

Associate Professor Exam, Associate Professor Exam, İstanbul Teknik Üniversitesi, March, 2023

Academic Staff Examination, Academic Staff Examination, December, 2022

Post Graduate, Post Graduate, December, 2022

Academic Staff Examination, Academic Staff Examination, İstanbul Aydın Üniversitesi, December, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, October, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, June, 2022

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2022

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2021

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, April, 2021

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, September, 2020

Doctorate, Doctorate, Atatürk Üniversitesi, September, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, March, 2020

Associate Professor Exam, Associate Professor Exam, Necmettin Erbakan Üniversitesi, January, 2020

Associate Professor Exam, Associate Professor Exam, Pamukkale Üniversitesi, January, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bursa Teknik Üniversitesi, January, 2020

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

- I. **Improvement of corrosion and stress corrosion properties of magnesium alloys by coating aluminum with the electric arc spray method**  
Catır R., ALTUN H.  
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, vol.73, no.11, pp.1766-1775, 2022 (SCI-Expanded)
- II. **Investigation of Stress Corrosion Cracking Behaviour of Mg-Al-Zn Alloys in Different pH Environments by SSRT Method**  
Catır R., ALTUN H.  
OPEN CHEMISTRY, vol.17, no.1, pp.972-979, 2019 (SCI-Expanded)
- III. **Investigation of structural, tribological and corrosion properties of electroless Ni-B coating deposited on 316L stainless steel**  
Bulbul F., ALTUN H., Ezirmik V., Kucuk O.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.227, no.J6, pp.629-639, 2013 (SCI-Expanded)
- IV. **Investigation of structural, tribological and corrosion properties of electroless Ni-B coating**

**deposited on 316L stainless steel Proceedings of the Institution of Mechanical Engineers**

ALTUN H.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.227, pp.629-639, 2013 (SCI-Expanded)

- V. **Tribological and corrosion behaviour of electroless Ni-B coating possessing a blackberry like structure**  
Bulbul F., ALTUN H., Kucuk O., Ezirmik V.  
METALS AND MATERIALS INTERNATIONAL, vol.18, no.4, pp.631-637, 2012 (SCI-Expanded)
- VI. **Determination of Mechanical Properties of Double-Strap Adhesive Joints with an Embedded Patch**  
Citil S., Temiz S., ALTUN H., Ozel A.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.25, no.18, pp.2555-2567, 2011 (SCI-Expanded)
- VII. **Fretting fatigue behaviour of a 2014-T6 aluminium alloy coated with an electroless nickel under rotating bending loading**  
SADELER R., Atasoy S., ALTUN H.  
KOVVOVE MATERIALY-METALLIC MATERIALS, vol.47, no.2, pp.95-100, 2009 (SCI-Expanded)
- VIII. **Corrosion behaviour of magnesium alloys coated with TiN by cathodic arc deposition in NaCl and Na<sub>2</sub>SO<sub>4</sub> solutions**  
ALTUN H., Sinici H.  
MATERIALS CHARACTERIZATION, vol.59, no.3, pp.266-270, 2008 (SCI-Expanded)
- IX. **Corrosion behaviour of magnesium alloys coated with TiN by cathodic arc deposition in NaCl and Na<sub>2</sub>SO<sub>4</sub> solutions**  
ALTUN H.  
MATERIALS CHARACTERIZATION, vol.59, pp.266-270, 2008 (SCI-Expanded)
- X. **The effect of PVD coatings on the wear behaviour of magnesium alloys**  
ALTUN H., Sen S.  
MATERIALS CHARACTERIZATION, vol.58, no.10, pp.917-921, 2007 (SCI-Expanded)
- XI. **The effect of PVD coatings on the wear behaviour of magnesium alloys.**  
ALTUN H.  
MATERIALS CHARACTERIZATION, vol.58, pp.917-921, 2007 (SCI-Expanded)
- XII. **The effect of PVD coatings on the corrosion behaviour of AZ91 magnesium alloy**  
ALTUN H., Sen S.  
MATERIALS & DESIGN, vol.27, no.10, pp.1174-1179, 2006 (SCI-Expanded)
- XIII. **The effect of DC magnetron sputtering AlN coatings on the corrosion behaviour of magnesium alloys**  
ALTUN H., Sen S.  
SURFACE & COATINGS TECHNOLOGY, vol.197, no.2-3, pp.193-200, 2005 (SCI-Expanded)
- XIV. **Studies on the influence of chloride ion concentration and pH on the corrosion and electrochemical behaviour of AZ63 magnesium alloy**  
ALTUN H., Sen S.  
MATERIALS & DESIGN, vol.25, no.7, pp.637-643, 2004 (SCI-Expanded)
- XV. **Effect of post-oxidizing on tribological and corrosion behaviour of plasma nitrated AISI 5140 steel**  
ALSARAN A., Altun H., Karakan M., Celik A.  
SURFACE & COATINGS TECHNOLOGY, vol.176, no.3, pp.344-348, 2004 (SCI-Expanded)
- XVI. **The effects of induction hardening on wear properties of AISI 4140 steel in dry sliding conditions**  
Totik Y., SADELER R., ALTUN H., GAVGALI A.  
MATERIALS & DESIGN, vol.24, no.1, pp.25-30, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Finite Element Analysis of the Indentation of An Elastic-Work Hardening Double Layered Half-Space by A Rigid Sphere**

Altun H., Şen S.

Brilliant Engineering, vol.1, no.3, pp.16-21, 2020 (Peer-Reviewed Journal)

**II. Elektriksiz Ni B Kaplamalarda Kaplama Süresiinin Etkisinin Araştırılması**

BÜLBÜL F., ALTUN H., KÜÇÜK Ö.

Journal of Qafqaz University, 2012 (Peer-Reviewed Journal)

**III. Investigation of effect of deposition time in electroless Ni-B coatings**

ALTUN H.

JOURNAL OF QAFQAZ UNIVERSITY, vol.34, pp.3-8, 2012 (Peer-Reviewed Journal)

**IV. %40 TiC ve SiC partikül katkılı metal matrisli kompozitlerin potansiyodinamik ve EIS analizleri**

DİKİCİ B., BEDİR F., ALTUN H., GAVGALI M.

Mühendis ve Makina, vol.50, no.595, pp.18-24, 2009 (Peer-Reviewed Journal)

**V. 40 TiC ve SiC partikül katkılı metal matrisli kompozitlerin potansiyodinamik ve EIS analizleri**

DİKİCİ B., BEDİR F., ALTUN H., GAVGALI M.

Mühendis ve Makina (Engineer the Machinery Magazine), 2009 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**I. INVESTIGATION OF THE CORROSION PROPERTIES OF ANODIZED AZ31 MAGNESIUM ALLOYS**

ÇATAR R., ALTUN H.

XV. International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018, pp.398-407

**II. AA2024 Alaşımının Farklı Ortamlardaki Gerilmeli Korozyon Davranışlarının İncelenmesi**

ÖZAKIN B., ALTUN H.

1st International Symposium on Multidisciplinary Studies and Innovative Technologies Proceedings, 2 - 04 November 2017, pp.214-218

**III. Investigation of Corrosion Properties of Anodizing Process on Magnesium Alloy in NaOH Solution**

ÇATAR R., ALTUN H.

II. International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 October 2017, pp.1528

**IV. Effect of Al<sub>2</sub>O<sub>3</sub> Ceramic Coating on The Stress Corrosion Cracking Behaviour of AZ31 Mg Alloy**

ÇATAR R., ALTUN H.

II. International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 October 2017, pp.1527

**V. Effect of pH on the Stress Corrosion Cracking of AZ91 Mg Alloys Using Slow Strain Rate Test(SSRT) Method**

ÇATAR R., ALTUN H.

International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.542-546

**VI. %40 TiC ve SiC partikül katkılı metal matrisli kompozitlerin potansiyodinamik ve EIS analizleri**

DİKİCİ B., BEDİR F., ALTUN H., GAVGALI M.

MATIT 2007: IX. Makine Tasarım ve İmalat Teknolojileri Kongresi, Konya, Turkey, 24 - 25 November 2007, pp.135-142

**VII. Nikel kaplanmış farklı malzemelerin korozyon davranışlarının karşılaştırılması**

GAVGALI M., TOTİK Y., ALTUN H., DİKİCİ B.

IV. DEMİR-CELİK KONGRESİ, Zonguldak, Turkey, 25 - 27 October 2007, pp.219-234

## Supported Projects

ALTUN H., Project Supported by Higher Education Institutions, YÜZEY KAPLAMA İŞLEMİ UYGULANMIŞ MAGNEZYUM ALAŞIMLARININ FARKLI ORTAMLARDAKİ GERİLMELİ KOROZYON DAVRANIŞLARININ İNCELENMESİ, 2016 - 2019

ALTUN H., Project Supported by Higher Education Institutions, "MAGNEZYUM ALAŞIMLARINI FARKLI ORTAMLARDAKİ GERİLMELİ KOROZYON DAVRANIŞININ İNCELENMESİ", 2012 - 2013

ALTUN H., ACAR V., AKBULUT H., Project Supported by Higher Education Institutions, MALZEMELERİN YAPI-ÖZELLİK İLİŞKİLERİNİN KARAKTERİZASYON ARAŞTIRMALARI, 2011 - 2012

## **Metrics**

Publication: 28

Citation (WoS): 630

Citation (Scopus): 729

H-Index (WoS): 10

H-Index (Scopus): 11