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Yoksis Araştırmacı ID: [13275](https://yoksis.gov.tr/yoksis/arastrmaci/13275)

### Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Türkiye 2004 - 2008

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Türkiye 2001 - 2004

Lisans, Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 1996 - 2001

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Sertifika, Kurs ve Eğitimler

Bilim ve Teknoloji Politikası, TÜBİTAK ULAKBİM + Wiley Oku & Yayınla Anlaşması: Dergilerde Açık Erişim Makale Yayınlama, TÜBİTAK, 2023

Mesleki Eğitim, Teknik Uzman Ulusal Yeterlilik ve Dış Doğrulama Eğitimi, Mesleki Yeterlilik Kurumu, 2020

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### Yaptığı Tezler

Doktora, Al/TiC Metal Matriksli Nano Kompozitlerin Sıcak Pres Yöntemiyle Üretilmesi Ve Karakterizasyonu, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2008

Yüksek Lisans, SiC Partikül Takviyeli Al-Si-Mg Bazlı Metal Matris Kompozitlerin Korozyon Davranışları, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2004

### Araştırma Alanları

Makina Mühendisliği, Konstrüksiyon ve İmalat, Malzeme, Mühendislik ve Teknoloji

## **Akademik Unvanlar / Gorevier**

Prof. Dr., Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Devam Ediyor  
Prof. Dr., Atatürk Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2018 - 2023  
Doç. Dr., Atatürk Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2017 - 2018  
Doç. Dr., Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2012 - 2017  
Yrd. Doç. Dr., Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2011 - 2012  
Yrd. Doç. Dr., Yüzüncü Yıl Üniversitesi, Ercis Meslek Yüksek Okulu, Makine Teknikerliği, 2009 - 2011  
Öğretim Görevlisi, Yüzüncü Yıl Üniversitesi, Ercis Meslek Yüksek Okulu, Makine Teknikerliği, 2007 - 2008  
Araştırma Görevlisi, Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2003 - 2007

## **Akademik İdari Deneyim**

Bölüm Başkanı, Atatürk Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2018 - 2023  
Anabilim/Bilim Dalı Başkanı, Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2017  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2015 - 2016  
Yüzüncü Yıl Üniversitesi, Bilimsel Araştırma Projeleri Başkanlığı, Fen Ve Mühendislik Bilimleri Proje Danışmanlık Kurulu, 2015 - 2016  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2014 - 2016  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2013 - 2016  
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Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2013 - 2014  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, Endüstri Mühendisliği, 2013 - 2014  
Yüzüncü Yıl Üniversitesi, Ercis Meslek Yüksek Okulu, Makine Teknikerliği, 2009 - 2013  
Yüzüncü Yıl Üniversitesi, Ercis Meslek Yüksek Okulu, Makine Teknikerliği, 2009 - 2013

## **Verdiği Dersler**

### **Doktora**

Nanoyapılar ve Biyomedikal Uygulamaları, Doktora, 2022 - 2023

### **Yüksek Lisans**

Elektrokimyasal Korozyon Ölçüm Teknikleri, Yüksek Lisans, 2021 - 2022

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### **Lisans**

Üretim Yöntemleri, Lisans, 2021 - 2022

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İş Sağlığı ve Güvenliği I, Lisans, 2022 - 2023

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### **Ön Lisans**

Girişimcilik 2, Ön Lisans, 2019 - 2020

## **Yönetilen Tezler**

- Dikici B., Ag ve TiO<sub>2</sub> katkılı hidroksiapatit sol-jel kaplamaların  $\beta$ -tipi Ti-29Nb-13Ta-4.6Zr alaşımı üzerine sentezlenmesi ve karakterizasyonu, Yüksek Lisans, S.KARA(Öğrenci), 2021
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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Comprehensive analysis of corrosion resistance and micro-machinability properties of  $\alpha + \beta$  and  $\beta$  phase novel Ti-30Zr-5Mo biomedical alloys**  
DİKİCİ B., Aslantas K., Zhao X., Niinomi M.  
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- II. **Corrosion inhibition efficiency and adsorption mechanism of two dihydropyridazin-3(2H)-ones on carbon steel in hydrochloric acid medium: Experimental verification and theoretical analysis**  
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- III. **A comprehensive review of plasma electrolytic oxidation (PEO) of tantalum (Ta): Mechanisms, properties, and applications**  
Fattah-alhosseini A., Chaharmahali R., DİKİCİ B., Kaseem M.  
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- IV. **Enhancing corrosion resistance and radiation shielding of AISI 304 SS with Nb and Mo-added Al<sub>0.3</sub>CrFeCoNi-based high-entropy alloy coatings in 3.5 wt% NaCl: The effect of environmental temperature**  
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- V. **A review of pretreatment techniques for electroless nickel-phosphorus plating on magnesium alloys with enhanced corrosion resistance and mechanical properties**  
Seifzadeh D., Rajabalizadeh Z., DİKİCİ B., Kıranşan K. D., ERÇARIKCI E.  
Materials Today Communications, cilt.44, 2025 (SCI-Expanded)
- VI. **MXene-based composites for enhanced photocatalytic Cr(VI) removal in wastewater: A comprehensive review**  
Fattah-alhosseini A., Sangarimotlagh Z., DİKİCİ B., Kaseem M.  
Journal of Alloys and Compounds, cilt.1015, 2025 (SCI-Expanded)
- VII. **Experimental and computational approach on the corrosion inhibition properties of two newly pyrazole derivatives on carbon steel in acid medium.**  
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- VIII. **Processing of Al-CuO Composite Powders by High-Pressure Torsion: the Effect of Rotation Number on their Mechanical and Corrosive Properties**

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JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 2025 (SCI-Expanded)

- IX. **A study on the influence of metal Ag, Cu, and Fe doping on the morphological, structural, and photocatalytic activity of TiO<sub>2</sub> nanostructures**  
Zakir O., Ait-Karra A., Idouhli R., Khadiri M., Dikici B., Zegzouti A., Abouelfida A., Outzourhit A.  
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- X. **An investigation of benzothiazole ionic compound as corrosion inhibitor for carbon steel in acidic media using electrochemical research, surface techniques, DFT, and MD simulation studies**  
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- XI. **Structural effect of bipyrazole derivatives on corrosion inhibition of carbon steel in 1 M HCl: weight loss, electrochemical measurements, XPS/SEM surface analysis, DFT and MC simulations**  
Setti N., Barrahi A., Maatallah M., Kaddouri Y., Touzani R., DİKİCİ B., Karrouchi K., Abuelizz H. A., Zarrouk A., Dafali A.  
Physical Chemistry Chemical Physics, 2025 (SCI-Expanded)
- XII. **Recycling Ti<sub>1.0</sub>Nb<sub>0.3</sub>Ta<sub>0.07</sub>Zr<sub>0.05</sub> Conventional Alloys: Production of Non-equimolar TiZrCrNb<sub>0.3</sub>Ta<sub>0.07</sub> Medium Entropy Alloys with the Addition of Cr for Improved In Vitro Corrosion Resistance**  
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- XIII. **Investigation of in-vitro bioactivity, electrochemical corrosion, wettability and adhesion properties of bioglass-based coatings modified with Y<sub>2</sub>O<sub>3</sub> and Zr on novel β-type Ti-30Zr-5Mo alloys**  
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SURFACE AND COATINGS TECHNOLOGY, cilt.494, ss.1-14, 2024 (SCI-Expanded)
- XIV. **Corrosion inhibition performance of benzimidazole derivatives for protection of carbon steel in hydrochloric acid solution**  
Timoudan N., Al-Gorair A. S., El Foujji L., Warad I., Safi Z., DİKİCİ B., Benhiba F., Qaiss A. E. K., Bouhfid R., Bentiss F., et al.  
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- XV. **Sol-gel coating containing carbon quantum dots for effective corrosion prevention**  
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SURFACE ENGINEERING, cilt.1, sa.1, ss.1-16, 2024 (SCI-Expanded)
- XVI. **Effect of oxidation on radiation shielding capacity of ZrNbTaMoW Refractory High Entropy Alloys (RHEA) for nuclear reactor applications: Experimental and theoretical assessment**  
ŞAKAR E., Guler O., Alim B., Guler S., DİKİCİ B., Lampke T.  
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- XVII. **Enhanced corrosion resistance of carbon steel in an aggressive environment by a recently developed pyrazole derivative: Electrochemical, SEM/XPS/AFM, and theoretical investigation**  
Timoudan N., El Faydy M., Titi A., Warad I., Benhiba F., Alsulmi A., Dikici B., Touzani A., Dafali A., Bellaouchou A., et al.  
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- XVIII. **Systematic characterization and enhanced corrosion resistance of novel β-type Ti-30Zr-5Mo biomedical alloys with halloysite nanotubes (HNTs) and zirconia (ZrO<sub>2</sub>)-reinforced polylactic acid (PLA) matrix coatings**  
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- XIX. **Assessing the properties of biodegradable magnesium alloy AZ31 protected by a polymer layer on a plasma electrolytic oxidized (PEO) surface**  
Khalili V., Ghaleh H., Asl H. N., Ege D., DİKİCİ B., Kaseem M., Breisch M., Frenzel J., Eggeler G.  
Surface and Coatings Technology, cilt.487, 2024 (SCI-Expanded)
- XX. **Enhanced photocatalytic abilities of innovative NbTaZrMoW high-entropy alloys (HEAs): a**

**comparative analysis with its high entropy oxide (HEO) counterpart**

Zakir O., Guler O., Idouhli R., Nayad A., Khadiri M., Guler S., Abouelfida A., Dikici B.

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- XXI. **Synergistic Photocatalysis of Bayerite/Zeolite Loaded TiO<sub>2</sub> Nanocomposites for Highly Efficient Degradation of Organic Pollutants in Aqueous Environments**  
Baha A. A., Ait-Karra A., Idouhli R., Tabit K., Zakir O., Dikici B., Khadiri M. E., Abouelfida A.  
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- XXII. **Production of CoCrFeNi(Al/Ti) High-Entropy Alloys by Mechanical Alloying: Optimization of Milling Time and Comparison of Corrosion Susceptibilities**  
Say Y., DİKİCİ B., Kaseem M., Özkul İ., Güler Ö.  
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- XXIII. **Smart sol-gel nanocomposite containing inhibitor-stabilized g-C<sub>3</sub>N<sub>4</sub> nanoplates for corrosion protection of magnesium alloy**  
Samadianfard R., Seifzadeh D., Dikici B.  
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- XXIV. **Experimental and theoretical insights into Artemisia Stems aqueous extract as a sustainable and eco-friendly corrosion inhibitor for mild steel in 1 M HCl environment**  
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- XXV. **Enhanced Cadmium Sensing in Fertilizer Samples using Zeolite-modified Graphite Electrode**  
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- XXVII. **Investigation of the mechanisms and adsorption of a new pyrazole derivative against corrosion of carbon steel in hydrochloric acid solution: Experimental methods and theoretical calculations**  
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- XXIX. **Influence of N<sub>2</sub>, N6-bis((3,5-dimethyl-1h-pyrazol-1-yl)methyl) pyridine-2,6-diamine on C35E steel corrosion in 1 M HCl medium: Experimental and theoretical studies**  
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- XXX. **Enhancing Dielectric, Ferroelectric and Antibacterial Properties of Siloxene Nanosheets by Wet Chemical Deposition of Flower-like Spherical ZnO Nanosheets**  
Nayad A., Hadouch Y., Khaldoune K., Rafya M., Dikici B., Mehdi A., Alga M., El Firdoussi L., Ali M. A.  
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- XXXI. **The Effect of Energy Density on Microstructural, Mechanical, and Corrosion Characteristics of Ti-6Al-4V Alloy Fabricated via Selective Laser Melting and Electron Beam Melting Techniques**  
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- XXXII. **Microstructural evolution and intermetallic formation in Zn-3Mg (wt%) powder mixture processed by high-pressure torsion**  
Rahman T., Yilmazer H., Dikici B., Edalati K., Poplawsky J. D., Boehlert C. J.

- Journal of Alloys and Compounds, cilt.968, ss.1-13, 2023 (SCI-Expanded)
- XXXIII. **Investigation of corrosion and wear performance of TiNbTaZr/Cr-Mo PVD coatings on 316L SS in Hanks's solution for improved biomedical applications**  
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- XXXV. **A review on TiO<sub>2</sub> nanotubes: synthesis strategies, modifications, and applications**  
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- XXXVI. **Zeolitization of Fumed Silica and Coal Fly Ash Using the Taguchi Method Toward Organic Pollutant Removal**  
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- XXXVIII. **In-vitro corrosion and surface properties of PVD-coated  $\beta$ -type TNTZ alloys for potential usage as biomaterials: Investigating the hardness, adhesion, and antibacterial properties of TiN, ZrN, and CrN film**  
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- XXXIX. **Application of g-C<sub>3</sub>N<sub>4</sub>/sol—gel nanocomposite on AM60B magnesium alloy and investigation of its properties**  
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- XLI. **Self-assembly of coumarin molecules on plasma electrolyzed layer for optimizing the electrochemical performance of AZ31 Mg alloy**  
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- XLII. **Surface Modification of Pure Mg for Enhanced Biocompatibility and Controlled Biodegradation: A Study on Graphene Oxide (GO)/Strontium Apatite (SrAp) Biocomposite Coatings**  
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## **Diđer Dergilerde Yayınlanan Makaleler**

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JOURNAL OF THERMAL SPRAY TECHNOLOGY, SCI-E Kapsamındaki Dergi, Kasım 2021

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JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI-E Kapsamındaki Dergi, Ağustos 2021

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI-E Kapsamındaki Dergi, Mart 2021

## Bilimsel Projelerde Hakemlikler

TÜBİTAK Projesi, 1501 - Sanayi Ar-Ge Projeleri Destekleme Programı, Kasım 2022

TÜBİTAK Projesi, 1501 - Sanayi Ar-Ge Projeleri Destekleme Programı, Ekim 2022

Diğer Ülkelerdeki Kamu Kurumları Tarafından Desteklenmiş Proje, Haziran 2022

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TÜBİTAK Projesi, 1002 - Hızlı Destek Programı, Şubat 2022  
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TÜBİTAK Projesi, 1001 - Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı, Kasım 2021  
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## **Etkinlik Organizasyonlarındaki Görevler**

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## **Metrikler**

Yayın: 290  
Atıf (WoS): 1516  
Atıf (Scopus): 2285  
H-İndeks (WoS): 24  
H-İndeks (Scopus): 27

## **Akademi Dışı Deneyim**

Bakanlık, Sanayi ve Teknoloji Bakanlığı, Ar-Ge Teşvikleri Genel Müdürlüğü, Komisyon Üyesi  
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