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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 Danışma Kurulu, 2015 - 2016
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2014 - 2016
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Verdiği Dersler

Üretim Yöntemleri, Lisans, 2021 - 2022
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Elektrokimyasal Korozyon Ölçüm Teknikleri, Yüksek Lisans, 2021 - 2022
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Yönetilen Tezler

Dikici B., Ag ve TiO₂ katkılı hidroksiapatit sol-jel kaplamaların β -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. **Investigation of in-vitro bioactivity, electrochemical corrosion, wettability and adhesion properties of bioglass-based coatings modified with Y₂O₃ and Zr on novel β -type Ti-30Zr-5Mo alloys**
Dikici B., Say Y., Zhao X., Niinomi M., Szechyńska-Hebda M.
SURFACE AND COATINGS TECHNOLOGY, cilt.494, ss.1-14, 2024 (SCI-Expanded)
- II. **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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- III. **Sol-gel coating containing carbon quantum dots for effective corrosion prevention**
Samadianfard R., Seifzadeh D., Dikici B.
SURFACE ENGINEERING, cilt.1, sa.1, ss.1-16, 2024 (SCI-Expanded)
- IV. **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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- V. **Systematic characterization and enhanced corrosion resistance of novel β -type Ti-30Zr-5Mo biomedical alloys with halloysite nanotubes (HNTs) and zirconia (ZrO₂)-reinforced polylactic acid (PLA) matrix coatings**
Topuz M., Dikici B., BUDAK H. F., Zhao X., Niinomi M.
MATERIALS TODAY COMMUNICATIONS, cilt.40, 2024 (SCI-Expanded)
- VI. **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.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, cilt.28, sa.8, ss.2837-2860, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **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.
Journal of Materials Science, cilt.59, sa.26, ss.12050-12064, 2024 (SCI-Expanded)
- IX. **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.

Journal of Materials Engineering and Performance, cilt.33, sa.12, ss.6065-6075, 2024 (SCI-Expanded)

- X. **Synergistic Photocatalysis of Bayerite/Zeolite Loaded TiO₂ 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.
SILICON, cilt.16, ss.1-14, 2024 (SCI-Expanded)
- XI. **Smart sol-gel nanocomposite containing inhibitor-stabilized g-C₃N₄ nanoplates for corrosion protection of magnesium alloy**
Samadianfard R., Seifzadeh D., Dikici B.
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- XII. **Electron Donor-Induced Electrochemical Reduction in Vanadate Anions to Enhance the Electrochemical Performance of Plasma Electrolytic Oxidation Layers**
Kaseem M., Fattah-Alhosseini A., Dikici B.
METALS, cilt.14, sa.6, ss.1-16, 2024 (SCI-Expanded)
- XIII. **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**
Berrissoul A., Dafali A., Benhiba F., Outada H., Warad I., Dikici B., Zarrouk A.
Environmental Science and Pollution Research, cilt.31, sa.25, ss.36643-36662, 2024 (SCI-Expanded)
- XIV. **Enhanced Cadmium Sensing in Fertilizer Samples using Zeolite-modified Graphite Electrode**
Ait Baha A., Rachid I., Tabit K., Aboulaich A., Khadiri M. E., Dikici B., Abouelfida A.
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- XV. **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**
Timoudan N., Titi A., El Faydy M., Benhiba F., Touzani R., Warad I., Bellaouchou A., Alsulmi A., Dikici B., Bentiss F., et al.
Colloids and Surfaces A: Physicochemical and Engineering Aspects, cilt.682, 2024 (SCI-Expanded)
- XVI. **Performance of a new pyrazole derivative in 1 M HCl on the corrosion of carbon steel: experimental, quantum chemical and molecular dynamics simulation studies**
Adlani L., Benzbiria N., Titi A., Timoudan N., Benhiba F., Warad I., Kaichouh G., Touzani R., Zarrok H., Dikici B., et al.
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- XVII. **Influence of N₂, 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**
Timoudan N., El Faydy M., Titi A., Benhiba F., Warad I., Touzani R., Tourir R., Alsulmi A., Dikici B., Bellaouchou A., et al.
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- XVIII. **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.
SILICON, cilt.16, sa.1, ss.189-202, 2024 (SCI-Expanded)
- XIX. **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)
- XX. **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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SURFACE & COATINGS TECHNOLOGY, cilt.473, 2023 (SCI-Expanded)
- XXI. **A comprehensive study on microstructure, in-vitro biodegradability, bacterial sensitivity, and cellular interactions of novel ternary Zn-Cu-xAg alloys for urological applications**
Yilmazer H., Basit S., Sen A., Yilmazer Y., Dalbayrak B., Arisan E., Arisan S., Islamgaliev R., Dikici B.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.965, ss.1-13, 2023 (SCI-Expanded)
- XXII. **Zeolitization of Fumed Silica and Coal Fly Ash Using the Taguchi Method Toward Organic Pollutant**

Removal

Ait Baha A., Tabit K., Idouhli R., Khadiri M., Zakir O., DİKİCİ B., Abouelfida A.
SILICON, cilt.15, sa.14, ss.6173-6184, 2023 (SCI-Expanded)

- XXIII. **Chromophores assisted phytochemicals and pheromones coatings on porous inorganic layers for enhancing anti-corrosion and photocatalytic properties**
Zehra T., Dikici B., Dafali A., Kaseem M.
PROGRESS IN ORGANIC COATINGS, cilt.182, ss.1-15, 2023 (SCI-Expanded)
- XXIV. **A review on TiO₂ nanotubes: synthesis strategies, modifications, and applications**
Zakir O., Ait-Karra A., Idouhli R., Khadiri M., DİKİCİ B., Aityoub A., Abouelfida A., Outzourhit A.
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- XXV. **In-vitro corrosion and surface properties of PVD-coated β -type TNTZ alloys for potential usage as biomaterials: Investigating the hardness, adhesion, and antibacterial properties of TiN, ZrN, and CrN film**
Ali L., Dikici B., Aslan N., Yilmazer Y., Sen A., Yilmazer H., Niinomi M.
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- XXVI. **Application of g-C₃N₄/sol-gel nanocomposite on AM60B magnesium alloy and investigation of its properties**
Samadianfard R., Seifzadeh D., Dikici B.
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- XXVII. **Effect of anodization time on the morphological, structural, electrochemical, and photocatalytic properties of anodic TiO₂ NTs**
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- XXVIII. **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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- XXIX. **Self-assembly of coumarin molecules on plasma electrolyzed layer for optimizing the electrochemical performance of AZ31 Mg alloy**
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- XXX. **A novel dual-functional layer exhibiting exceptional protection and photocatalytic activity by organic functionalization of plasma electrolyzed layer**
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- XXXI. **Corrosion response and biocompatibility of graphene oxide (GO)- serotonin (Ser) coatings on Ti₆Al₇Nb and Ti₂₉Nb₁₃Ta_{4.6}Zr (TNTZ) alloys fabricated (EPD)**
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- XXXII. **Investigation of the Influence of High-Pressure Torsion and Solution Treatment on Corrosion and Tribocorrosion Behavior of CoCrMo Alloys for Biomedical Applications**
Yilmazer H., Çalha İ., Dikici B., Toptan F., Işık M., Niinomi M., Nakai M., Alves A. C.
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- XXXIII. **A comparative study on the machinability of β -type novel Ti₂₉Nb₁₃Ta_{4.6}Zr (TNTZ) biomedical alloys under micro-milling operation**
Aslantaş K., Demir B., Güldibi A. S., Niinomi M., Dikici B.
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- XXXIV. **Incorporation of Zinc Hydroxide Sulphate (ZHS) Nanoplates into Epoxy Resin to Improve Its Corrosion Protection**
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- XXXV. **A comprehensive study on structural properties, photon and particle attenuation competence of CoNiFeCr-Ti/Al high entropy alloys (HEAs)**
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- XXXVI. **Recycling Ti_{1.0}Nb_{0.3}Ta_{0.07}Zr_{0.05} Conventional Alloys: Production of Non-equimolar TiZrCrNb_{0.3}Ta_{0.07} Medium Entropy Alloys with the Addition of Cr for Improved In Vitro Corrosion Resistance**
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- XXXVII. **Chemical Synthesis of Organo-siloxene 2D Materials from Calcium Di-Silicide: Characterization, Dielectric and Electrochemical Studies**
Nayad A., Hasnaoui A., Hadouch Y., Fkhar L., Idouhli R., Abdessalam A., Mehdi A., DİKİCİ B., Mezzane D., El Firdoussi L., et al.
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- XXXVIII. **Assessment of corrosion inhibition performance of origanum compactum extract for mild steel in 1 M HCl: Weight loss, electrochemical, SEM/EDX, XPS, DFT and molecular dynamic simulation**
Berrissoul A., Ouarhach A., Benhiba F., Romane A., Guenbour A., DİKİCİ B., Bentiss F., Zarrouk A., Dafali A.
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- XXXIX. **Fabrication and characterization of Ag- and Cu-doped TiO₂ nanotubes (NTs) by in situ anodization method as an efficient photocatalyst**
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- XL. **Graphene reinforced hybrid-bioceramic coatings on porous-Ti6Al4V for biomedical applications: morphology, corrosion resistance, and cell viability**
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- XLI. **Facile formation with HA/Sr-GO-based composite coatings via green hydrothermal treatment on beta-type TiNbTaZr alloys: Morphological and electrochemical insights**
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- XLII. **Improving the electrochemical stability of AZ31 Mg alloy in a 3.5wt.% NaCl solution via the surface functionalization of plasma electrolytic oxidation coating**
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- XLIV. **Microstructure, mechanical properties, and corrosion resistance of an explosively welded Mg-Al composite**
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- XLV. **Taguchi optimization of PEO process parameters for corrosion protection of AA7075 alloy**
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- XLVI. **Effect of hydroxyapatite:zirconia volume fraction ratio on mechanical and corrosive properties of Ti-matrix composite scaffolds**
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- XLVIII. **The Ti_{3.6}Nb_{1.0}Ta_{0.2}Zr_{0.2} coating on anodized aluminum by PVD: A potential candidate for short-time biomedical applications**
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