

# Prof. Burak DİKİCİ

## Personal Information

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## International Researcher IDs

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ScopusID: 23501298200

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## Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2004 - 2008

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2001 - 2004

Undergraduate, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1996 - 2001

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Science and Technology Policy, TÜBİTAK ULAKBİM + Wiley Oku & Yayınla Anlaşması: Dergilerde Açık Erişim Makale Yayınlama, TÜBİTAK, 2023

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

Vocational Training, Teknik Uzman Dış Doğrulama Eğitimi, Mesleki Yeterlilik Kurumu, 2020

## Dissertations

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

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

## Research Areas

Mechanical Engineering, Construction and Manufacturing, Material, Engineering and Technology

## Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Continues  
Professor, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2018 - 2023  
Associate Professor, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2017 - 2018  
Associate Professor, Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2012 - 2017  
Assistant Professor, Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2011 - 2012  
Assistant Professor, Yüzüncü Yıl Üniversitesi, Ercis Meslek Yüksek Okulu, Makine Teknikerliği, 2009 - 2011  
Lecturer, Yüzüncü Yıl Üniversitesi, Ercis Meslek Yüksek Okulu, Makine Teknikerliği, 2007 - 2008  
Research Assistant, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2003 - 2007

## Academic and Administrative Experience

Head of Department, Ataturk University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2018 - 2023  
Head of Department, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2017  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2015 - 2016  
Yüzüncü Yıl Üniversitesi, Bilimsel Arastırma Projeleri Baskanlığı, Fen Ve Mühendislik Bilimleri Proje Danisma Kurulu, 2015 - 2016  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2014 - 2016  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2013 - 2016  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, 2015 - 2015  
Yüzüncü Yıl Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2013 - 2015  
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

## Courses

### Doctorate

Nanoyapılar ve Biyomedikal Uygulamaları, Doctorate, 2022 - 2023

### Postgraduate

Elektrokimyasal Korozyon Ölçüm Teknikleri, Postgraduate, 2021 - 2022  
İleri Malzeme Bilimi, Postgraduate, 2021 - 2022  
İleri Malzeme Bilimi, Postgraduate, 2022 - 2023  
Metal Matriksli Kompozit Malzemeler, Postgraduate, 2019 - 2020

### Undergraduate

Üretim Yöntemleri, Undergraduate, 2021 - 2022  
Plastik Şekil Verme, Undergraduate, 2021 - 2022  
Metalurji Malzeme Mühendisliği Seçmeli Tasarım II, Undergraduate, 2021 - 2022  
Bitirme Projesi II, Undergraduate, 2021 - 2022  
İş Sağlığı ve Güvenliği I, Undergraduate, 2022 - 2023  
Korozyon ve Korozyondan Korunma, Undergraduate, 2020 - 2021  
Girişimcilik 1, Undergraduate, 2019 - 2020

### Associate Degree

Girişimcilik 2, Associate Degree, 2019 - 2020

## Supervised Theses

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, Postgraduate, S.KARA(Student), 2021

Dikici B., Beta tipi Ti-29Nb-13Ta-4.6Zr alaşımlarının PVD tekniği ile hafifmetaller üzerine kaplanması, Postgraduate, M.ZARKA(Student), 2019

Dikici B., Sıcak pres yöntemi ile üretilen Al/B4C metal matrisli kompozitlerin mekanik ve korozif özellikleri üzerine yaslandırma ısıl işlemin etkisi, Postgraduate, B.Tozkoparan(Student), 2017

DİKİCİ B., Beta ( $\beta$ )-tipi titanyum alaşımları üzerine biyoaktif hibrid kaplamaların üretilmesi, karakterizasyonu ve in-vitro korozyon özelliklerinin araştırılması., Postgraduate, M.Topuz(Student), 2016

DİKİCİ B., In-Situ Al<sub>2</sub>O<sub>3</sub> fazlar ile kuvvetlendirilmiş Al-12Si plazma sprey kompozit kaplamaların korozyon davranışının belirlenmesi, Postgraduate, C.Irsat(Student), 2016

DİKİCİ B., Çift merdaneli sürekli döküm tekniği ile üretilmiş AZ31, AZ61 ve AZ91 magnezyum alaşımlarının korozyon davranışı üzerine ısıl işlemin etkisi, Postgraduate, F.Kalaycı(Student), 2013

DİKİCİ B., Çift merdaneli sürekli döküm tekniği ile üretilmiş AM50 ve AM60 magnezyum alaşımı levhaların özelliklerinin belirlenmesi, Postgraduate, E.Zubaroglu(Student), 2011

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

- 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.  
Journal of Manufacturing Processes, vol.141, pp.445-460, 2025 (SCI-Expanded)
- 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**  
Chahir L., Marzaq A., Timoudan N., Faydy M. E., Benhiba F., Left D. B., Zertoubi M., Saddik R., Tighadouini S., Warad L., et al.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.712, 2025 (SCI-Expanded)
- 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.  
International Journal of Refractory Metals and Hard Materials, vol.128, 2025 (SCI-Expanded)
- 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**  
DİKİCİ B., Lindner T., ŞAKAR E., Lampke T., Seifzadeh D., Grund T., Kamacı K.  
Journal of Alloys and Compounds, vol.1020, 2025 (SCI-Expanded)
- 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, vol.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, vol.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.**  
Setti N., Barrahi A., Maatallah M., Kaddouri Y., Hadda T. B., Outada H., Thakur A., Touzani R., Karrouchi K., Abuelizz H. A., et al.  
Scientific reports, vol.15, no.1, pp.3631, 2025 (SCI-Expanded)
- VIII. **Processing of Al-CuO Composite Powders by High-Pressure Torsion: the Effect of Rotation Number on their Mechanical and Corrosive Properties**  
Bulutsuz A. G., Bruder E., DİKİCİ B.

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.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.1010, 2025 (SCI-Expanded)
- 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**  
Barrahi A., Mekhzoum M., Thakur A., Qaiss A. K., Kaichouh G., El Faydy M., Benhiba F., DİKİCİ B., Bouhfid R., Abuelizz H. A., et al.  
International Journal of Electrochemical Science, vol.20, no.1, 2025 (SCI-Expanded)
- 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**  
Guler O., Say Y., DİKİCİ B., Ozkul I., Niinomi M.  
Journal of Materials Engineering and Performance, vol.33, no.22, pp.12267-12278, 2024 (SCI-Expanded)
- 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**  
Dikici B., Say Y., Zhao X., Niinomi M., Szechyńska-Hebda M.  
SURFACE AND COATINGS TECHNOLOGY, vol.494, pp.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.  
RSC Advances, vol.14, no.41, pp.30295-30316, 2024 (SCI-Expanded)
- XV. **Sol-gel coating containing carbon quantum dots for effective corrosion prevention**  
Samadianfard R., Seifzadeh D., Dikici B.  
SURFACE ENGINEERING, vol.1, no.1, pp.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.  
Journal of Alloys and Compounds, vol.997, 2024 (SCI-Expanded)
- 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.  
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.28, no.8, pp.2837-2860, 2024 (SCI-Expanded)
- 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**  
Topuz M., Dikici B., BUDAK H. F., Zhao X., Niinomi M.  
MATERIALS TODAY COMMUNICATIONS, vol.40, 2024 (SCI-Expanded)
- 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, vol.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.  
Journal of Materials Science, vol.59, no.26, pp.12050-12064, 2024 (SCI-Expanded)
- 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.  
SILICON, vol.16, pp.1-14, 2024 (SCI-Expanded)
- 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.  
Journal of Materials Engineering and Performance, vol.33, no.12, pp.6065-6075, 2024 (SCI-Expanded)
- 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.  
Surface and Coatings Technology, vol.484, 2024 (SCI-Expanded)
- 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**  
Berrissoul A., Dafali A., Benhiba F., Outada H., Warad I., DİKİCİ B., Zarrouk A.  
Environmental Science and Pollution Research, vol.31, no.25, pp.36643-36662, 2024 (SCI-Expanded)
- XXV. **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.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.171, pp.1-12, 2024 (SCI-Expanded)
- XXVI. **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, vol.14, no.6, pp.1-16, 2024 (SCI-Expanded)
- 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**  
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, vol.682, 2024 (SCI-Expanded)
- XXVIII. **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.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, 2024 (SCI-Expanded)
- XXIX. **Influence of N<sub>2</sub>, N<sub>6</sub>-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., DİKİCİ B., Bellaouchou A., et al.  
Journal of Dispersion Science and Technology, 2024 (SCI-Expanded)
- 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.  
SILICON, vol.16, no.1, pp.189-202, 2024 (SCI-Expanded)
- 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**  
YILMAZER H., Sadikoglu Y., Kucuk S., Gokcekaya O., Turu I., Nakano T., DİKİCİ B.  
Journal of Materials Engineering and Performance, 2024 (SCI-Expanded)
- 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, vol.968, pp.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**  
Atmaca I, Dikici B, Ezirmik K. V., Bulutsuz A., Niinomi M.  
SURFACE & COATINGS TECHNOLOGY, vol.473, 2023 (SCI-Expanded)
- XXXIV. **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, vol.965, pp.1-13, 2023 (SCI-Expanded)
- XXXV. **A review on TiO<sub>2</sub> nanotubes: synthesis strategies, modifications, and applications**  
Zakir O., Ait-Karra A., Idouhli R., Khadiri M., DİKİCİ B., Aityoub A., Abouelfida A., Outzourhit A.  
Journal of Solid State Electrochemistry, vol.27, no.9, pp.2289-2307, 2023 (SCI-Expanded)
- XXXVI. **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, vol.15, no.14, pp.6173-6184, 2023 (SCI-Expanded)
- XXXVII. **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, vol.182, pp.1-15, 2023 (SCI-Expanded)
- 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**  
Ali L., Dikici B., Aslan N., Yilmazer Y., Sen A., Yilmazer H., Niinomi M.  
SURFACE AND COATINGS TECHNOLOGY, vol.466, pp.1-11, 2023 (SCI-Expanded)
- XXXIX. **Application of g-C<sub>3</sub>N<sub>4</sub>/sol-gel nanocomposite on AM60B magnesium alloy and investigation of its properties**  
Samadianfard R., Seifzadeh D., Dikici B.  
International Journal of Minerals, Metallurgy and Materials, vol.30, no.6, pp.1113-1127, 2023 (SCI-Expanded)
- XL. **Effect of anodization time on the morphological, structural, electrochemical, and photocatalytic properties of anodic TiO<sub>2</sub> NTs**  
Zakir O., Ait-Karra A., Idouhli R., Khadiri M., DİKİCİ B., Aityoub A., Abouelfida A., Outzourhit A.  
Journal of Solid State Chemistry, vol.322, 2023 (SCI-Expanded)
- XLI. **Self-assembly of coumarin molecules on plasma electrolyzed layer for optimizing the electrochemical performance of AZ31 Mg alloy**  
Kaseem M., Dikici B., Dafali A., Fattah-Alhosseini A.  
Journal of Magnesium and Alloys, vol.11, no.5, pp.1618-1628, 2023 (SCI-Expanded)
- XLII. **Surface Modification of Pure Mg for Enhanced Biocompatibility and Controlled Biodegradation: A Study on Graphene Oxide (GO)/Strontium Apatite (SrAp) Biocomposite Coatings**  
Yiğit O., Gürgeç T., Dikici B., Kaseem M., Boehlert C., Arslan E.  
COATINGS, vol.13, no.5, pp.1-17, 2023 (SCI-Expanded)
- XLIII. **A novel dual-functional layer exhibiting exceptional protection and photocatalytic activity by organic functionalization of plasma electrolyzed layer**  
Kaseem M., Zehra T., Dikici B., Dafali A., Fattah-Alhosseini A.  
JOURNAL OF MAGNESIUM AND ALLOYS, vol.11, no.4, pp.1247-1263, 2023 (SCI-Expanded)
- XLIV. **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.  
CRYSTALS, vol.13, no.4, pp.1-14, 2023 (SCI-Expanded)
- XLV. **A comparative study on the machinability of  $\beta$ -type novel Ti<sub>29</sub>Nb<sub>13</sub>Ta<sub>4.6</sub>Zr (TNTZ) biomedical alloys under micro-milling operation**  
Aslantaş K., Demir B., Güldibi A. S., Niinomi M., Dikici B.

JOURNAL OF MANUFACTURING PROCESSES, vol.92, pp.135-146, 2023 (SCI-Expanded)

- XLVI. **Corrosion response and biocompatibility of graphene oxide (GO)- serotonin (Ser) coatings on Ti6Al7Nb and Ti29Nb13Ta4.6Zr (TNTZ) alloys fabricated (EPD)**  
Oktay A., Yilmazer H., Przekora A., Yilmazer Y., Wojcik M., Dikici B., Ustundag C. B.  
MATERIALS TODAY COMMUNICATIONS, vol.34, 2023 (SCI-Expanded)
- XLVII. **Incorporation of Zinc Hydroxide Sulphate (ZHS) Nanoplates into Epoxy Resin to Improve Its Corrosion Protection**  
Aliahmadi F., Seifzadeh D., Samadianfard R., DİKİCİ B.  
MINERALS, vol.13, no.2, 2023 (SCI-Expanded)
- XLVIII. **A comprehensive study on structural properties, photon and particle attenuation competence of CoNiFeCr-Ti/Al high entropy alloys (HEAs)**  
ŞAKAR E., Guler O., Alim B., Say Y., DİKİCİ B.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.931, 2023 (SCI-Expanded)
- XLIX. **Chemical Synthesis of Organo-siloxene 2D Materials from Calcium Di-Silicide: Characterization, Dielectric and Electrochemical Studies**  
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- XLV. **Synthesis and Characterization of Sol Gel Hydroxyapatite Coatings on The Beta Type Titanium Alloys The Effect of Sintering Conditions**  
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- LXIX. **Cold Spray Deposition of SS316L Powders on Al5052 Substrates: An Investigation on the Potential Using as Implant**  
DİKİCİ B.  
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- LXXI. **Investigation of Ti-based composites and porous materials designed for biomedical applications**  
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- LXXIII. **Effects of high-pressure torsion on corrosion behaviors of  $\beta$ -type titanium alloy in simulated body fluid**  
YILMAZER H., NIINOMI M., NAKAI M., DİKİCİ B.  
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- LXXIV. **Effects of high-pressure torsion on corrosion behaviors of  $\beta$ -type titanium alloy in simulated body fluid**  
YILMAZER H., NIINOMI M., NAKAI M., DİKİCİ B.  
The 21th Material Processing Technical Conference (M&P2013), Tokyo, Japan, 8 - 10 November 2013, pp.43
- LXXV. **Production of in-situ Al-Cu/?-Al<sub>2</sub>O<sub>3</sub> metal matrix composites by means of conventional hot pressing and the effect of sintering temperature**  
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- LXXVI. **Production of in-situ Al-Cu/?-Al<sub>2</sub>O<sub>3</sub> metal matrix composites by means of conventional hot pressing and the effect of sintering temperature**  
DİKİCİ B., GAVGALI M., BEDİR F.  
Euro Intelligent Materials, Kiel, Germany, 25 - 27 September 2013, pp.43
- LXXVII. **Effect of aging treatment on corrosion susceptibilities of biomedical nanostructured  $\beta$ -type titanium alloys through severe plastic deformation**  
DİKİCİ B., YILMAZER H., NIINOMI M., NAKAI M.  
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- LXXVIII. **Effect of aging treatment on corrosion susceptibilities of biomedical nanostructured  $\beta$ -type titanium alloys through severe plastic deformation**  
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- LXXIX. **The effect of sintering temperature on the corrosion behavior of aluminium based metal matrix composites reinforced with in-situ TiC nanoparticles**  
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- LXXX. **The effect of sintering temperature on the corrosion behavior of aluminium based metal matrix composites reinforced with in-situ TiC nanoparticles**  
DİKİCİ B.  
NANOTR-9, 9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013, pp.43
- LXXXI. **Effect of high-pressure torsion (HPT) processing on corrosion behavior of a new biomedical  $\beta$ -type titanium alloy**  
DİKİCİ B., YILMAZER H., NIINOMI M., NAKAI M., GAVGALI M.  
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- LXXXIII. **AM50 ve AM60 Magnezyum Alasimi Levhaların Korozyon Davranışı Üzerine Homojenleştirme İşleminin Etkisi**  
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- LXXXIV. **AM50 ve AM60 Magnezyum Alasimi Levhaların Korozyon Davranışı Üzerine Homojenleştirme İşleminin Etkisi**  
DİKİCİ B.  
MATIT 2011: III. Makine Tasarım ve İmalat Teknolojileri Kongresi, Konya, Turkey, 22 - 23 October 2011, pp.279-287
- LXXXV. **Corrosion susceptibilities of under and over aged Al/TiC three-layered composites produced by hot-pressing**  
DİKİCİ B., BEDİR F., GAVGALI M.  
5th Powder Metallurgy Symposium & Exhibition, Kuala Lumpur, Malaysia, 9 - 10 August 2011, pp.43
- LXXXVI. **Corrosion susceptibilities of under and over aged Al/TiC three-layered composites produced by hot-pressing**  
DİKİCİ B., BEDİR F., GAVGALI M.  
5th Powder Metallurgy Symposium & Exhibition, Kuala Lumpur, Malaysia, 9 - 10 August 2011, pp.43
- LXXXVII. **Biyoseramik Kaplamanın AA6061-T4 Alasimında Korozyon Direncine Etkisi**  
SÖNMEZ S., AKSAKAL B., DİKİCİ B., GAVGALI M.  
IATS'11: INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM, Elazığ, Turkey, 24 - 26 June 2011, pp.415-421
- LXXXVIII. **Biyoseramik Kaplamanın AA6061-T4 Alasimında Korozyon Direncine Etkisi**  
SÖNMEZ S., AKSAKAL B., DİKİCİ B., GAVGALI M.  
IATS'11: INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM, Elazığ, Turkey, 24 - 26 June 2011, pp.415-421
- LXXXIX. **Determination of Corrosion Behaviors of AZXX Series Magnesium Alloy Sheets Manufactured by Two-Roll Strip Casting Method**  
DİKİCİ B., DUYGULU Ö., GAVGALI M.  
XII. INTERNATIONAL CORROSION SYMPOSIUM, Eskişehir, Turkey, 24 - 28 June 2010, pp.297-303
- XC. **Effect of Reinforcement Content on Corrosion Behaviors of Al-Cu/TiCp MMCs Fabricated by Hot Pressing**  
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- XCI. **Effect of Reinforcement Content on Corrosion Behaviors of Al-Cu/TiCp MMCs Fabricated by Hot Pressing**  
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MALAYSIAN METALLURGY CONFERENCE 2010 & 4th MALAYSIAN POWDER METALLURGY SYMPOSIUM, Penang, Malaysia, 24 - 28 June 2010, pp.15-16
- XCII. **Determination of Corrosion Behaviors of AZXX Series Magnesium Alloy Sheets Manufactured by Two-Roll Strip Casting Method**  
DİKİCİ B., DUYGULU Ö., GAVGALI M.  
XII. INTERNATIONAL CORROSION SYMPOSIUM, Eskişehir, Turkey, 24 - 28 June 2010, pp.297-303
- XCIII. **Sıcak presleme yöntemi ile üretilmiş Al?Cu/Al<sub>2</sub>O<sub>3</sub> in?situ kompozitler: sinterleme süresinin etkisi**  
DİKİCİ B., Kalaycı F.  
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MATIT 2009: V. Makine Tasarım ve İmalat Teknolojileri Kongresi, Konya, Turkey, 17 - 18 October 2009, pp.57-66
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UMYOS'09: 1st International 5th National Vocational Schools Symposium'09, Konya, Turkey, 24 - 28 June 2009, pp.325-334
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- XCVII. **In situ sıcak pres yöntemi ile üretilen alüminyum esaslı kompozitin korozyon ve mekanik özelliklerinin karşılaştırılması**  
MİNDİVAN H., ÖNAL M., DİKİCİ B., GAVGALI M.  
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- XCVIII. **Production of Al/TiC in-situ nanocomposites by means of hot press method**  
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- XCIX. **Comparison of corrosion and mechanical properties of Al based metal matrix composites produced by in-situ hot press method**  
DİKİCİ B.  
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- CI. **In situ sıcak pres yöntemi ile üretilen alüminyum esaslı kompozitin korozyon ve mekanik özelliklerinin karşılaştırılması**  
MİNDİVAN H., ÖNAL M., DİKİCİ B., GAVGALI M.  
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- CII. **Comparison of corrosion and mechanical properties of Al based metal matrix composites produced by in-situ hot press method**  
DİKİCİ B.  
IATS'09: INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM, Karabük, Turkey, 13 - 15 May 2009, pp.953-956
- CIII. **AZ31 magnezyum alüminyum levhaların korozyon hassasiyetleri**  
DİKİCİ B.  
XI. OTOMOTİV SEMPOZYUMU, Bursa, Turkey, 8 - 09 May 2009, pp.302-307
- CIV. **Al-CuO/Al<sub>2</sub>O<sub>3</sub> in-situ kompozitler: Sinterleme sıcaklığının etkisi**  
DİKİCİ B.  
XI. OTOMOTİV SEMPOZYUMU, Bursa, Turkey, 8 - 09 May 2009, pp.14-22
- CV. **Al-CuO/Al<sub>2</sub>O<sub>3</sub> in-situ kompozitler: Sinterleme sıcaklığının etkisi**  
DİKİCİ B.  
XI. OTOMOTİV SEMPOZYUMU, Bursa, Turkey, 8 - 09 May 2009, pp.14-22
- CVI. **Çelik yüzeylerdeki pirol katkılı epoksi boyaların korozyonda karşı koruma refleksinin tahribatsız ve tahribatlı elektrokimyasal testlerle belirlenmesi**  
KC B., DİKİCİ B., KIYAK T., K A.  
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- CVII. **AZ31 magnezyum alüminyum levhaların korozyon hassasiyetleri**  
DİKİCİ B.  
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- CIX. **The corrosion characteristic of alloyed NiTi powder mixture on austenitic stainless steel by using PTA process**  
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- CX. **The corrosion characteristic of alloyed NiTi powder mixture on austenitic stainless steel by using**

**PTA process**

ÖZEL S., DİKİCİ B., S İ., GAVGALI M.

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- CXI. **Sıcak pres yöntemiyle üretilmiş in-situ Al/TiC nano kompozitin korozyon davranışı**  
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XI. International Corrosion Symposium, İzmir, Turkey, 22 - 25 October 2008, pp.672-679
- CXIII. **The corrosion behaviour of an in-situ Al/TiC nanocomposite produced by hot pressing**  
DİKİCİ B.  
XI. INTERNATIONAL CORROSION SYMPOSIUM, İzmir, Turkey, 24 - 28 September 2008, pp.672-679
- CXIV. **The corrosion behaviour of an in-situ Al/TiC nanocomposite produced by hot pressing**  
DİKİCİ B.  
XI. INTERNATIONAL CORROSION SYMPOSIUM, İzmir, Turkey, 24 - 28 September 2008, pp.672-679
- CXV. **Çelik yüzeylerdeki boya altı korozyonuna karşı çevre dostu iletken polipirol kaplamalar**  
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- CXVI. **Çelik yüzeylerdeki boya altı korozyonuna karşı çevre dostu iletken polipirol kaplamalar**  
K T, DİKİCİ B., GAVGALI M.  
Black Sea International Environmental Symposium., Giresun, Turkey, 25 - 29 August 2008, pp.562-574
- CXVII. **Conductive polypyrrol coatings as an environmentally friendly alternative for prevention against under-paint corrosion on steel surfaces**  
DİKİCİ B.  
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- CXVIII. **Conductive polypyrrol coatings as an environmentally friendly alternative for prevention against under-paint corrosion on steel surfaces**  
DİKİCİ B.  
BIES08: BLACK SEA INTERNATIONAL ENVIRONMENTAL SYMPOSIUM, Giresun, Turkey, 24 - 28 August 2008, pp.562-574
- CXIX. **Corrosion behavior of in-situ Al<sub>2</sub>O<sub>3</sub> formed composite coating by DC plasma spraying**  
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- CXXI. **%40 TiC ve SiC partikül katkılı metal matrisli kompozitlerin potansiyodinamik ve EIS analizleri**  
DİKİCİ B., BEDİR F., ALTUN H., GAVGALI M.  
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- CXXII. **The Effect of Cold-Worked Ratio on Corrosion Behavior of T8 Tempered Al<sub>3</sub>Si<sub>2</sub>Mg/SiCp Metal Matrix Composites**  
DİKİCİ B., TEKMEŒ Ç., GAVGALI M.  
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- CXXIII. **The Effect of Cold-Worked Ratio on Corrosion Behavior of T8 Tempered Al<sub>3</sub>Si<sub>2</sub>Mg/SiCp Metal Matrix Composites**  
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**CXXIV. Nikel kaplanmış farklı malzemelerin korozyon davranışlarının karşılaştırılması**

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

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

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**CXXVIII. Yüksek oranlarda SiC partikül takviyeli Al/Cu alaşımli kompozitlerin elektrokimyasal davranışları**

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**CXXX. The Influence of Boron Carbide (B4C) Reinforcement on the pitting behaviour of aluminium**

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**CXXXI. The Influence of Boron Carbide (B4C) Reinforcement on the pitting behaviour of aluminium**

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**CXXXII. Al-5Cu/50 TiC metal matrisli kompozitin korozyon duyarlılığı**

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**CXXXIV. İS makinelerinde gürültü problemi, çevreye etkisi ve kontrolü**

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**CXXXVI. Toz altı kaynağıyla birleştirilen yer altı tasıma borularının kaynak bölgesinin korozyonu**

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**CXXXVII. Al/SiCp kompozitlerde görülen porozite tipleri ve geçirdikleri korozyon mekanizmaları**

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**CXXXVIII. Çevrenin İS makinalarının yürüyüş takımları üzerindeki korozyon etkisine genel bir bakış**

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DİKİCİ B., TUBITAK Project, Beta ( $\beta$ )-Tipi Titanyum Alasimlerinin Vücut Entegrasyonunu ve Biyoyumluluğunu İyilestirmek Amacıyla Sol-Jel Yüzey Modifikasyon İşlemleri ile Biyoaktif Hibrid Kaplamalar ile Kaplanması Ve Karakterizasyonu, 2014 - 2017

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DİKİCİ B., ÇELİK A., TUBITAK Project, Nano partiküller ile kuvvetlendirilmiş alüminyum metal matriks kompozitlerin üretilmesi, mekanik, tribolojik ve koroziv özelliklerinin belirlenmesi, 2006 - 2009

DİKİCİ B., TUBITAK Project, Konvansiyonel sıcak presleme yöntemi ile üretilmiş SiC, TiC ve B4C takviyeli alüminyum bazlı kompozitlerin korozyon davranışının belirlenmesi, 2006 - 2007

## Activities in Scientific Journals

METALS, Special Issue Editor, 2023 - Continues

Hybrid Advances, Committee Member, 2023 - Continues

COATINGS, Special Issue Editor, 2023 - Continues

International Journal of Biomedical Materials Research (IJBMR), Committee Member, 2022 - Continues

International Journal of Materials Science and Applications (IJMSA), Committee Member, 2022 - Continues

Journal of Agriculture & Life Sciences, Committee Member, 2017 - Continues

CRYSTALS, Special Issue Editor, 2022 - 2023

MOLECULES, Special Issue Editor, 2021 - 2022

Research on Engineering Structures Materials, Special Issue Editor, 2019 - 2019

## Peer Reviews in Scientific Publications

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, December 2021

JOURNAL OF THERMAL SPRAY TECHNOLOGY, Journal Indexed in SCI-E, November 2021

JOURNAL OF THERMAL SPRAY TECHNOLOGY, Journal Indexed in SCI-E, September 2021

TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, Journal Indexed in SCI-E, August 2021  
REVIEWS ON ADVANCED MATERIALS SCIENCE, Journal Indexed in SCI-E, August 2021  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, August 2021  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Journal Indexed in SCI-E, March 2021

### **Scientific Project Refereeing**

TUBITAK Project, 1501 - Industry R & D Projects Support Program, November 2022  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, October 2022  
Project Supported by Public Organizations in Other Countries, June 2022  
TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , May 2022  
TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , May 2022  
TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , May 2022  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, April 2022  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, April 2022  
TUBITAK Project, 1002 - Quick Support Program, February 2022  
TUBITAK Project, 1002 - Quick Support Program, January 2022  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2021  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, November 2021  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, April 2021  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, April 2021

### **Tasks In Event Organizations**

Zinderen İ. E., Kulözü Uzunboy N., Yılmaz A., Dikici B., GENÇCELEP B., Doğu Anadolu Kariyer Fuarı (DAKAF'22), Social Activities, Erzurum, Turkey, Mart 2022

### **Metrics**

Publication: 290  
Citation (WoS): 1516  
Citation (Scopus): 2285  
H-Index (WoS): 24  
H-Index (Scopus): 27

### **Non Academic Experience**

Ministry, Sanayi ve Teknoloji Bakanlığı, Ar-Ge Teşvikleri Genel Müdürlüğü, Komisyon Üyesi  
Ministry, Sanayi ve Teknoloji Bakanlığı, Ar-Ge Teşvikleri Genel Müdürlüğü, Üye  
University, Azerbaijan Technology University, Engineering Faculty, Visiting Professor  
University, Tohoku University, Institute for Materials Research, Visiting Professor