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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

Üretim Yöntemleri, Undergraduate, 2021 - 2022
Plastik Şekil Verme, Undergraduate, 2021 - 2022
Nanoyapılar ve Biyomedikal Uygulamaları, Doctorate, 2022 - 2023
Elektrokimyasal Korozyon Ölçüm Teknikleri, Postgraduate, 2021 - 2022
İleri Malzeme Bilimi, Postgraduate, 2021 - 2022
İleri Malzeme Bilimi, Postgraduate, 2022 - 2023
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
Metal Matriksli Kompozit Malzemeler, Postgraduate, 2019 - 2020
Girişimcilik 2, Associate Degree, 2019 - 2020
Girişimcilik 1, Undergraduate, 2019 - 2020

Advising Theses

Dikici B., Ag ve TiO₂ katkılı hidroksiapatit sol-jel kaplamaların β -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., Sicak pres yöntemi ile üretilen Al/B₄C metal matrisli kompozitlerin mekanik ve korozif özellikleri üzerine

yaslandirma isil islemin etkisi, Postgraduate, B.Tozkoparan(Student), 2017
DİKİCİ B., Beta (β)-tipi titanyum alasilari üzerine biyoaktif hibrid kaplamaların üretilmesi, karakterizasyonu ve in-vitro korozyon özelliklerinin araştırılması, Postgraduate, M.Topuz(Student), 2016
DİKİCİ B., In-Situ Al₂O₃ 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 alasilarının korozyon davranışı üzerine isil islemin etkisi, Postgraduate, F.Kalayci(Student), 2013
DİKİCİ B., Çift merdaneli sürekli döküm tekniği ile üretilmiş AM50 ve AM60 magnezyum alasil levhaların özelliklerinin belirlenmesi, Postgraduate, E.Zubaroglu(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.494, pp.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.
RSC Advances, vol.14, no.41, pp.30295-30316, 2024 (SCI-Expanded)
- III. **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)
- 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.
Journal of Alloys and Compounds, vol.997, 2024 (SCI-Expanded)
- 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, vol.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, vol.28, no.8, pp.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, vol.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, vol.59, no.26, pp.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, vol.33, no.12, pp.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, vol.16, pp.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.
Surface and Coatings Technology, vol.484, 2024 (SCI-Expanded)
- 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, vol.14, no.6, pp.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., DİKİCİ B., Zarrouk A.
Environmental Science and Pollution Research, vol.31, no.25, pp.36643-36662, 2024 (SCI-Expanded)
- XIV. **Enhanced Cadmium Sensing in Fertilizer Samples using Zeolite-modified Graphite Electrode**
Ait Baha A., Rachid I., Tabit K., Aboulach A., Khadiri M. E., Dikici B., Abouelfida A.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.171, pp.1-12, 2024 (SCI-Expanded)
- 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, vol.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.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, 2024 (SCI-Expanded)
- 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., Touir R., Alsulmi A., DİKİCİ B., Bellaouchou A., et al.
Journal of Dispersion Science and Technology, 2024 (SCI-Expanded)
- 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, vol.16, no.1, pp.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, vol.968, pp.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**
Atmaca I., Dikici B., Ezirmik K. V., Bulutsuz A., Niinomi M.
SURFACE & COATINGS TECHNOLOGY, vol.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, vol.965, pp.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, vol.15, no.14, pp.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, vol.182, pp.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.
Journal of Solid State Electrochemistry, vol.27, no.9, pp.2289-2307, 2023 (SCI-Expanded)
- 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.
SURFACE AND COATINGS TECHNOLOGY, vol.466, pp.1-11, 2023 (SCI-Expanded)
- XXVI. **Application of g-C₃N₄/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)
- XXVII. **Effect of anodization time on the morphological, structural, electrochemical, and photocatalytic properties of anodic TiO₂ 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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **Corrosion response and biocompatibility of graphene oxide (GO)- serotonin (Ser) coatings on Ti₆Al₇Nb and Ti₂₉Nb₁₃Ta_{4.6}Zr (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)
- 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.
CRYSTALS, vol.13, no.4, pp.1-14, 2023 (SCI-Expanded)
- 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.
JOURNAL OF MANUFACTURING PROCESSES, vol.92, pp.135-146, 2023 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)

- 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**
Guler O., Say Y., DİKİCİ B., Ozkul I., Niinomi M.
Journal of Materials Engineering and Performance, 2023 (SCI-Expanded)
- 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.
SILICON, vol.15, no.1, pp.321-335, 2023 (SCI-Expanded)
- 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.
Industrial Crops and Products, vol.187, 2022 (SCI-Expanded)
- XXXIX. **Fabrication and characterization of Ag- and Cu-doped TiO₂ nanotubes (NTs) by in situ anodization method as an efficient photocatalyst**
Zakir O., Karra A. A., Idouhli R., Elyaagoubi M., Khadiri M., DİKİCİ B., Aityoub A., Abouelfida A., Outzourhit A.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.26, no.10, pp.2247-2260, 2022 (SCI-Expanded)
- XL. **Graphene reinforced hybrid-bioceramic coatings on porous-Ti6Al4V for biomedical applications: morphology, corrosion resistance, and cell viability**
Aslan N., Aksakal B., Dikici B., Sinirlioglu Z. A.
Journal of Materials Science, vol.57, no.35, pp.16858-16874, 2022 (SCI-Expanded)
- XL I. **Facile formation with HA/Sr-GO-based composite coatings via green hydrothermal treatment on beta-type TiNbTaZr alloys: Morphological and electrochemical insights**
YİÇİT O., DİKİCİ B., Kaseem M., Nakai M., Niinomi M.
JOURNAL OF MATERIALS RESEARCH, vol.37, no.16, pp.2512-2524, 2022 (SCI-Expanded)
- XLII. **Improving the electrochemical stability of AZ31 Mg alloy in a 3.5wt.% NaCl solution via the surface functionalization of plasma electrolytic oxidation coating**
Kaseem M., Zehra T., DİKİCİ B., Dafali A., Yang H. W., Ko Y. G.
Journal of Magnesium and Alloys, vol.10, no.5, pp.1311-1325, 2022 (SCI-Expanded)
- XLIII. **Improving the Chemical Stability of Al Alloy through the Densification of the Alumina Layer Assisted by SiF₆²⁻ Anion Hydrolysis**
Kaseem M., DİKİCİ B., Liu H.
NANOMATERIALS, vol.12, no.8, 2022 (SCI-Expanded)
- XLIV. **Microstructure, mechanical properties, and corrosion resistance of an explosively welded Mg-Al composite**
Acarer M., Demir B., DİKİCİ B., Salur E.
JOURNAL OF MAGNESIUM AND ALLOYS, vol.10, no.4, pp.1086-1095, 2022 (SCI-Expanded)
- XLV. **Taguchi optimization of PEO process parameters for corrosion protection of AA7075 alloy**
SONGUR F., Arslan E., DİKİCİ B.
Surface and Coatings Technology, vol.434, 2022 (SCI-Expanded)
- XLVI. **Effect of hydroxyapatite:zirconia volume fraction ratio on mechanical and corrosive properties of Ti-matrix composite scaffolds**
Topuz M., DİKİCİ B., Gavgali M., Yilmazer Y.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.32, no.3, pp.882-894, 2022 (SCI-Expanded)
- XLVII. **Processing of Ti/(HA+ZrO₂) biocomposite and 50% porous hybrid scaffolds with low Young's modulus by powder metallurgy: Comparing of structural, mechanical, and corrosion properties**
Topuz M., DİKİCİ B., GAVGALI M., Kaseem M.

- MATERIALS TODAY COMMUNICATIONS, vol.29, 2021 (SCI-Expanded)
- 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**
Zarka M., Dikici B., Niinomi M., Ezirmik K. V., Nakai M., Kaseem M.
VACUUM, vol.192, 2021 (SCI-Expanded)
- XLIX. **Boron-Doped Hydroxyapatite Coatings on NiTi Alloys Using the Electrophoretic Deposition Method: Enhanced Corrosion and Adhesion Performances**
Aksoy M. E., Aksakal B., Aslan N., Dikici B.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.30, no.10, pp.7365-7375, 2021 (SCI-Expanded)
- L. **Fabrication of functionalized coating with a unique flowery-flake structure for an effective corrosion performance and catalytic degradation**
Kaseem M., Hussain T., Zeeshan U. R., Yang H. W., Dikici B., Ko Y. G.
CHEMICAL ENGINEERING JOURNAL, vol.420, 2021 (SCI-Expanded)
- LI. **A Review on Synthesis, Properties, and Applications of Polylactic Acid/Silica Composites**
Kaseem M., Ur Rehman Z., Hossain S., Singh A. K., DİKİCİ B.
POLYMERS, vol.13, no.18, 2021 (SCI-Expanded)
- LII. **Enhanced Adhesion and Corrosion Properties of Boron Doped Bioceramic Coated 316L Implants**
Aksoy M. E., Aksakal B., Aslan N., Dikici B.
Protection of Metals and Physical Chemistry of Surfaces, vol.57, no.5, pp.1040-1050, 2021 (SCI-Expanded)
- LIII. **Surface Properties of Graphene Functionalized TiO₂/nHA Hybrid Coatings Made on Ti6Al7Nb Alloys via Plasma Electrolytic Oxidation (PEO)**
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- XXIV. **The synthesis and determination of mechanical properties of metal oxide-reinforced hydroxyapatite based ceramic coatings**
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2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.378
- XXV. **Comparison of corrosion behaviors of β -type Ti₂₉Nb₁₃Ta_{4.6}Zr alloys with α and $\alpha\beta$ type titanium alloys**
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- XXIX. **Al-Cu Metal Matrisli Kompozitlerin Korozyon Davranışı Üzerine B₄C Partikül Hacim Oranı ve Yaşlandırma İşleminin Birleşik Etkisi**
TOZKOPARAN B., DİKİCİ B., BEDİR F., TOPUZ M., GAVGALI M.
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- XXXIV. **Development of high value alloys without critical raw materials through high entropy alloys**
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- XXXV. **High performance copper and copper alloys fabricated by severe plastic deformation**
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- XXXVIII. **Demiryollarında İş Sağlığı ve Güvenliği Problemleri ve Çözüm Önerileri**
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- XXXIX. **Yeni Yapılacak Demiryolu Hatlarında Mekanik Titreşimlerin Oluşturabileceği Problemler Ve Alınabilecek Önlemler**
ERDOĞAN E., DİKİCİ B.
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- XLI. **Microstructural Characterizations of Sintered W-VC-C Composites and Their Electrochemical Behaviours in Aqueous 1 M H₂SO₄ Solutions**
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- XLII. **Zirkonya Takviyeli Hidroksiapatit HA Bazlı Biyoaktif Hibrid Kaplamaların Korozyon Duyarlılıkları**
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- XLIII. **Prediction of Corrosion Behaviour of Particulate Reinforced Metal Matrix Composites by Adaptive Neuro Fuzzy Inference System ANFIS**
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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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- XLVIII. **Beta β Tipi Titanyum Alaşımlarının Elektrokimyasal Korozyon Davranışı Üzerine Hydroxyapatite Esaslı Biyoaktif Kaplamaların Etkisi**
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- XLIX. **Prediction of Hardness Values of Cold Worked Al/SiCp Composite at Different Reduction Ratio by Adaptive Neuro-Fuzzy Inference System**
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- LXIII. **In-Situ Al/TiC Nanocomposites: The Effect of Sintering Temperature on the Corrosion Behavior**
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- LXV. **The effect of sintering time on the corrosion behavior of in-situ Al-Cu/Al₂O₃ nanocomposites**
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- LXVII. **What Are the Harmful Effects of Corrosion?**
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- LXVIII. **What Are the Harmful Effects of Corrosion?**
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Ministry, Sanayi ve Teknoloji Bakanlığı, Ar-Ge Teşvikleri Genel Müdürlüğü

Ministry, Sanayi ve Teknoloji Bakanlığı, Ar-Ge Teşvikleri Genel Müdürlüğü

University, Azerbaijan Technology University, Engineering Faculty

University, Tohoku University, Institute for Materials Research