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International Researcher IDs

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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 & Yayımla 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, Metalurji ve Malzeme Mühendisliği, 2018 - Continues
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 - Continues
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 Matrisli 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., Sıcak pres yöntemi ile üretilen Al/B₄C metal matrisli kompozitlerin mekanik ve korozyon özellikleri üzerine yaslandırma ısıl işlemin etkisi, Postgraduate, B.Tozkoparan(Student), 2017

DİKİCİ B., Beta (β)-tipi titanyum alaslmlari 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 sprej kompozit kaplamaların korozyon davranışının belirlenmesi, Postgraduate, C.Irsat(Student), 2016

DİKİCİ B., Çift merdaneli sürekli döküm tekniği ile üretilmiş AZ31, AZ61 ve AZ91 magnezyum alaslmlarının korozyon davranışı üzerine ısı islemin etkisi, Postgraduate, F.Kalayci(Student), 2013

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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., DİKİCİ B., Bentiss F., et al.
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.682, 2024 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- 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, 2023 (SCI-Expanded)
- X. **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)

- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **Facile formation with HA/Sr-GO-based composite coatings via green hydrothermal treatment on beta-type TiNbTaZr alloys: Morphological and electrochemical insights**
YİĞİT O., DİKİCİ B., Kaseem M., Nakai M., Niinomi M.
JOURNAL OF MATERIALS RESEARCH, vol.37, no.16, pp.2512-2524, 2022 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **The Ti3.6Nb1.0Ta0.2Zr0.2 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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **Surface Properties of Graphene Functionalized TiO2/nHA Hybrid Coatings Made on Ti6Al7Nb Alloys via Plasma Electrolytic Oxidation (PEO)**
YİĞİT O., ÖZDEMİR N., DİKİCİ B., Kaseem M.
MOLECULES, vol.26, no.13, 2021 (SCI-Expanded)
- XXIX. **Plasma electrolytic oxidation of Ti-6Al-4V alloys in nHA/GNS containing electrolytes for biomedical applications: The combined effect of the deposition frequency and GNS weight percentage**
Yigit O., DİKİCİ B., Ozdemir N., ARSLAN E.
Surface and Coatings Technology, vol.415, 2021 (SCI-Expanded)
- XXX. **Titanium-based composite scaffolds reinforced with hydroxyapatite-zirconia: Production, mechanical and in-vitro characterization**
Topuz M., DİKİCİ B., GAVGALI M.
Journal of the Mechanical Behavior of Biomedical Materials, vol.118, 2021 (SCI-Expanded)
- XXXI. **Optimization of surface properties of plasma electrolytic oxidation coating by organic additives: A review**
Kaseem M., DİKİCİ B.
Coatings, vol.11, no.4, 2021 (SCI-Expanded)
- XXXII. **Hydrothermal synthesis of nanocrystalline hydroxyapatite-graphene nanosheet on Ti-6Al-7Nb: mechanical and in vitro corrosion performance**
YİĞİT O., DİKİCİ B., ÖZDEMİR N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.32, no.4, 2021 (SCI-Expanded)
- XXXIII. **A Review on LDH-Smart Functionalization of Anodic Films of Mg Alloys**
Kaseem M., Ramachandraiah K., Hossain S., DİKİCİ B.
NANOMATERIALS, vol.11, no.2, 2021 (SCI-Expanded)
- XXXIV. **An artificial neural network (ANN) solution to the prediction of age-hardening and corrosion behavior of an Al/TiC functional gradient material (FGM)**
DİKİCİ B., Tuntaş R.
Journal of Composite Materials, vol.55, no.2, pp.303-317, 2021 (SCI-Expanded)
- XXXV. **A systematic study of β -type Ti-based PVD coatings on magnesium for biomedical application**
Zarka M., Dikici B., Niinomi M., Ezirmik K. V., Nakai M., Yilmazer H.
Vacuum, vol.183, 2021 (SCI-Expanded)
- XXXVI. **The effect of graphene nano-sheet (GNS) weight percentage on mechanical and corrosion properties of AZ61 and AZ91 based magnesium matrix composites**
Guler O., Say Y., DİKİCİ B.
Journal of Composite Materials, vol.54, no.28, pp.4473-4485, 2020 (SCI-Expanded)

- XXXVII. **Anticorrosion effect of a green sustainable inhibitor on mild steel in hydrochloric acid**
Berrissoul A., Loukili E., Mechbal N., Benhiba F., Guenbour A., DİKİCİ B., Zarrouk A., Dafali A.
Journal of Colloid and Interface Science, vol.580, pp.740-752, 2020 (SCI-Expanded)
- XXXVIII. **Carbon nanotube (CNT) reinforced magnesium matrix composites: The effect of CNT ratio on their mechanical properties and corrosion resistance**
Say Y., Guler O., DİKİCİ B.
Materials Science and Engineering A, vol.798, 2020 (SCI-Expanded)
- XXXIX. **Evaluation of Lavandula mairei extract as green inhibitor for mild steel corrosion in 1 M HCl solution. Experimental and theoretical approach**
Berrissoul A., Ouarhach A., Benhiba F., Romane A., Zarrouk A., Guenbour A., DİKİCİ B., Dafali A.
Journal of Molecular Liquids, vol.313, 2020 (SCI-Expanded)
- XL. **One-step synthesis of nano-hydroxyapatite/graphene nanosheet hybrid coatings on Ti6Al4V alloys by hydrothermal method and their in-vitro corrosion responses**
Yigit O., DİKİCİ B., ŞENOCAK T. Ç., Ozdemir N.
Surface and Coatings Technology, vol.394, 2020 (SCI-Expanded)
- XLI. **Al-5Cu/B4Cp composites: The combined effect of artificially aging (T6) and particle volume fractions on the corrosion behaviour**
Tozkoparan B., DİKİCİ B., Topuz M., Bedir F., GAVGALI M.
Advanced Powder Technology, vol.31, no.7, pp.2833-2842, 2020 (SCI-Expanded)
- XLII. **The effect of high TiC particle content on the tensile cracking and corrosion behavior of Al-5Cu matrix composites**
DİKİCİ B., BEDİR F., GAVGALI M.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.13, pp.1681-1690, 2020 (SCI-Expanded)
- XLIII. **Current status and perspectives of zinc-based absorbable alloys for biomedical applications**
Hernandez-Escobar D., Champagne S., YILMAZER H., DİKİCİ B., Boehlert C. J., Hermawan H.
ACTA BIOMATERIALIA, vol.97, pp.1-22, 2019 (SCI-Expanded)
- XLIV. **The plasma electrolytic oxidation (PEO) coatings to enhance in-vitro corrosion resistance of Ti-29Nb-13Ta-4.6Zr alloys: The combined effect of duty cycle and the deposition frequency**
SONGUR F., DİKİCİ B., Niinomi M., ARSLAN E.
SURFACE & COATINGS TECHNOLOGY, vol.374, pp.345-354, 2019 (SCI-Expanded)
- XLV. **Effect of heat treatment on wear and corrosion behavior of high chromium white cast iron**
SARAÇ M. F., DİKİCİ B.
MATERIALS TESTING, vol.61, no.7, pp.659-666, 2019 (SCI-Expanded)
- XLVI. **Synthesis of biphasic calcium phosphate (BCP) coatings on beta-type titanium alloys reinforced with rutile-TiO₂ compounds: adhesion resistance and in-vitro corrosion**
DİKİCİ B., Niinomi M., Topuz M., Koc S. G., NAKAI M.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.87, no.3, pp.713-724, 2018 (SCI-Expanded)
- XLVII. **Synthesis and Characterization of Hydroxyapatite/TiO₂ Coatings on the beta-Type Titanium Alloys with Different Sintering Parameters using Sol-Gel Method**
DİKİCİ B., Niinomi M., Topuz M., Say Y., AKSAKAL B., YILMAZER H., NAKAI M.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.54, no.3, pp.457-462, 2018 (SCI-Expanded)
- XLVIII. **Production of Annealed Cold-Sprayed 316L Stainless Steel Coatings for Biomedical Applications and Their in-vitro Corrosion Response**
DİKİCİ B., Topuz M.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.54, no.2, pp.333-339, 2018 (SCI-Expanded)
- XLIX. **An ANFIS model to prediction of corrosion resistance of coated implant materials**
Tuntaş R., DİKİCİ B.
NEURAL COMPUTING & APPLICATIONS, vol.28, no.11, pp.3617-3627, 2017 (SCI-Expanded)
- L. **An investigation on the aging responses and corrosion behaviour of A356/SiC composites by neural**

network: The effect of cold working ratio

Tuntaş R., Dikici B.

Journal of Composite Materials, vol.50, no.17, pp.2323-2335, 2016 (SCI-Expanded)

- LI. **Effect of hydroxyapatite/SiO₂ hybriide coatings on surface morphology and corrosion resistance of REX-734 alloy**
Say Y., AKSAKAL B., Dikici B.
CERAMICS INTERNATIONAL, vol.42, no.8, pp.10151-10158, 2016 (SCI-Expanded)
- LII. **The Effect of Post-Heat Treatment on Microstructure of 316L Cold-Sprayed Coatings and Their Corrosion Performance**
Dikici B., YILMAZER H., Ozdemir I., Isik M.
JOURNAL OF THERMAL SPRAY TECHNOLOGY, vol.25, no.4, pp.704-714, 2016 (SCI-Expanded)
- LIIL. **A comparative study: The combined effect of the cold working and age hardening processes on pitting behaviour of Al/SiC metal matrix composites under saline environment**
Dikici B., Tekmen C.
JOURNAL OF COMPOSITE MATERIALS, vol.50, no.4, pp.471-480, 2016 (SCI-Expanded)
- LIV. **Corrosion performance and microstructural response of A380 matrix alloy reinforced with sol-gel TiO₂-coated SiC particles: a perspective on previous studies**
Dikici B., Tekmen C., Yigit O.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.106, no.3, pp.275-281, 2015 (SCI-Expanded)
- LV. **Prediction of corrosion susceptibilities of Al-based metal matrix composites reinforced with SiC particles using artificial neural network**
Tuntaş R., Dikici B.
Journal of Composite Materials, vol.49, no.27, pp.3431-3438, 2015 (SCI-Expanded)
- LVI. **Influence of hydroxyapatite coating thickness and powder particle size on corrosion performance of MA8M magnesium alloy**
Sonmez S., AKSAKAL B., Dikici B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.596, pp.125-131, 2014 (SCI-Expanded)
- LVII. **Titanium-magnesium based composites: Mechanical properties and in-vitro corrosion response in Ringer's solution**
Esen Z., Dikici B., Duygulu O., DERİCİOĞLU A. F.
Materials Science and Engineering A, vol.573, pp.119-126, 2013 (SCI-Expanded)
- LVIII. **The effect of sintering time on synthesis of in situ submicron alpha-Al₂O₃ particles by the exothermic reactions of CuO particles in molten pure Al**
Dikici B., GAVGALI M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.551, pp.101-107, 2013 (SCI-Expanded)
- LIX. **Corrosion protection of AA6061-T4 alloy by sol-gel derived micro and nano-scale hydroxyapatite (HA) coating**
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University, Azerbaijan Technology University, Engineering Faculty

University, Tohoku University, Institute for Materials Research