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Education Information

Post Doctorate, University of North Texas, United States Of America 2019 - 2020

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 1997 - 2002

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 1995 - 1997

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Turkey 1989 - 1993

Foreign Languages

English

Dissertations

Doctorate, Elektrokimyasal depolama yoluyla elde edilen CuCo ve Cu-Co-Ni alaşım filmlerinin yapısal ve magnetorezistans özellikleri, Ataturk University, Fen Bilimleri Enstitüsü, 2002

Postgraduate, Elektrokimyasal depolama metoduyla elde edilen Co-Cu alaşım filmlerinde sıcaklığa bağlı boyuna magnetorezistans ve öz direnç, Ataturk University, Fen Bilimleri Enstitüsü, 1997

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, 2015 - Continues

Professor, 2014 - 2014

Associate Professor, 2009 - 2014

Assistant Professor, Kilis 7 Aralık University, 2004 - 2009

Expert, Ataturk University, Mühendislik Fakültesi, 2000 - 2004

Academic and Administrative Experience

2014 - 2015

2013 - 2015

2013 - 2014

2012 - 2014

2010 - 2013

2009 - 2011

Kilis 7 Aralık University, 2004 - 2009

Kilis 7 Aralık University, 2004 - 2009

Courses

KATILARIN MAGNETİK ÖZELLİKLERİ, Undergraduate Double Major, 2014-2015

X-İŞİNİ DİFARKSİYONU II, Undergraduate Double Major, 2014-2015, 2013-2014, 2012-2013, 2011-2012, 2010-2011, 2009-2010

MALZEME FİZİĞİ VE UYGULAMALARI, Undergraduate Double Major, 2014-2015

TEMEL BİLGİ TEKNOLOJİLERİ VE KULLANIMI I, Undergraduate, 2014-2015

NEURAL NETWORK, Undergraduate Minor, 2013-2014, 2011-2012

İNCE FİLM FİZİĞİ, Undergraduate, 2011-2012, 2010-2011, 2009-2010

MODERN FİZİK, Undergraduate, 2011-2012, 2010-2011, 2009-2010

MODERN FİZİK, Undergraduate, 2008-2009, 2005-2006

İNCE FİLM FİZİĞİ, Undergraduate, 2008-2009, 2007-2008

Advising Theses

KARAHAN İ. H., Akımsız kaplama metoduyla Ni-P-W/h-BN kompozit kaplamaların mekanik ve korozyon davranışlarının incelenmesi, Postgraduate, H.KURUMLİ(Student), 2024

KARAHAN İ. H., Elektrodepolama yöntemi kullanılarak üretilmiş Ni-W/hBN kompozit kaplamaların mekanik ve korozyon özelliklerinin incelenmesi, Postgraduate, G.ZÜBARİOĞLU(Student), 2023

KARAHAN İ. H., Biyomimetik hidroksiapatit/kitosan/kollajen/ZrO₂ ve TiO₂ kompozitlerinin elektroforetik depolanması ve incelenmesi, Doctorate, T.DİLSİZOĞLU(Student), 2023

KARAHAN İ. H., AISI D3 soğuk iş takım çeliği yüzeyinde niyobyum karbür kaplamalarının oluşturulabilirliği, aşınma ve korozyon davranışlarının incelenmesi, Postgraduate, H.HÜSEYİN(Student), 2023

KARAHAN İ. H., Yeni Tip Ni-Cr/hBN fonksiyonel kompozit kaplamaların elektrodepolama yöntemi ile üretilmesi, mekanik ve korozyon özelliklerinin incelenmesi, Doctorate, M.DEMİR(Student), 2021

KARAHAN İ. H., Bakır ve çinko iyonları içeren çözeltilerden elektrodepolama yöntemi ile üretilen filmlerin malzeme ve korozyon özelliklerinin incelenmesi, Doctorate, K.YURDAL(Student), 2019

KARAHAN İ. H., Bilgisayar destekli optimizasyon kullanılarak biyomimetik yaklaşımla elektroforetik depolanan hidroksiapatit/kitosan/kollajen/h-BN biyokompozit kaplamaların mekanik, tribolojik ve korozyon özelliklerinin incelenmesi, Doctorate, A.TOZAR(Student), 2017

KARAHAN İ. H., Metalik biyomalzemelerin elektrokaplama yöntemi ile hidroksiapatit kaplanması, karakterizasyonu, modelleme ve yapay zeka uygulamaları, Doctorate, M.İBRAHİM(Student), 2016

KARAHAN İ. H., Ni-b/hBN kompozit kaplamaların elektrodepolama yoluyla üretilmesi ve özelliklerinin incelenmesi, Postgraduate, E.ÜNAL(Student), 2016

KARAHAN İ. H., Al katkılı Ba(Zr,Ti)O₃ seramiklerin dielektrik özelliklerinin incelenmesi, Postgraduate, T.DİLSİZOĞLU(Student), 2016

KARAHAN İ. H., Hatay ilinde turizme açık cami,kilise, farklı ibadethaneler, müze ve bazı turistik yerlerde radon gazı ölçümü, Postgraduate, N.KUTLU(Student), 2016

KARAHAN İ. H., Çinko kaplanmış karbon çeliğinin Na-okzalit ve Na-tartarat ortamlarında polianilin ve poli o-anisidin ile kaplanarak korozyon direncinin geliştirilmesi, Postgraduate, K.ÖZTEKİN(Student), 2014

KARAHAN İ. H., Zn ve Cu'dan oluşan ince film alaşımların elektrodepolama ile üretilmesi ve elektriksel özdirenç özelliklerinin incelenmesi, Doctorate, R.ÖZDEMİR(Student), 2013

KARAHAN İ. H., Düşük karbonlu çeliğin çevreci ZnNi/polianilin iletken polimer ile kaplanması ve kaplanan çeliğin korozyon davranışının incelenmesi, Postgraduate, A.TOZAR(Student), 2012

KARAHAN İ. H., Farklı depolama şartlarında anilinle kaplanmış AISI 4140 sanayi çeliklerin korozyon özellikleri ve borik asitin (H3BO3) etkisi, Postgraduate, G.KOÇ(Student), 2011

KARAHAN İ. H., Düşük karbonlu çeliğin çevreci ZnFe/polianilin iletken polimer ile kaplanması ve kaplanan çeliğin korozyon davranışının incelenmesi, Postgraduate, F.TİLTİL(Student), 2011

KARAHAN İ. H., Elektrodepolama yöntemi ile elde edilen ZnFe ince filmlerinin elektriksel özdirenç özelliklerinin sezgisel yöntemler yardımıyla incelenmesi, Postgraduate, R.ÖZDEMİR(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhancing NiCoB alloy coatings with hBN nanoparticles: exploring structural, mechanical, and corrosion improvements through pulse electrodeposition**
Hakkı Karahan İ. H., Golden T. D.
Transactions of the Institute of Metal Finishing, vol.103, no.1, pp.48-56, 2025 (SCI-Expanded)
- II. **Effect of Citrate-Based Bath pH on Properties of Electrodeposited Cu-Zn Coating on an Aluminum Substrate**
Özdemir R., Ünal E., KARAHAN İ. H.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.55, no.10, pp.3937-3955, 2024 (SCI-Expanded)
- III. **The relationship between ceramic additives among structural, morphological, shielding, and stopping power features of BN/ZnFe metal matrix materials**
USTA M., KARAHAN İ. H.
Progress in Nuclear Energy, vol.175, 2024 (SCI-Expanded)
- IV. **Estimation of microhardness and crystal grain size values of electrodeposited Ni-B/TiC nanocomposite coatings by artificial neural networks (ANN) method**
Ünal E., YAŞAR A., KARAHAN İ. H.
Journal of Alloys and Compounds, vol.966, 2023 (SCI-Expanded)
- V. **Characterizations and Kinetics of Refractory Niobium Carbide Coatings on AISI D3 Steel**
Günen A., Açıkgöz H. H., Keddami M., KARAHAN İ. H.
Journal of Materials Engineering and Performance, vol.32, no.19, pp.8972-8980, 2023 (SCI-Expanded)
- VI. **Effect of saccharin addition on formation, wear and corrosion resistance of electrodeposited Ni-Cr coatings**
Demir M., Kanca E., KARAHAN İ. H.
Materials Science- Poland, vol.41, no.3, pp.111-125, 2023 (SCI-Expanded)
- VII. **A RESPONSE SURFACE STUDY on the GROWN BEHAVIOR and SOME MECHANICAL PROPERTIES of NIOBIUM CARBIDE COATINGS**
Günen A., Açıkgöz H. H., Çavdar F., KARAHAN İ. H.
Surface Review and Letters, vol.30, no.9, 2023 (SCI-Expanded)
- VIII. **Effect of trimethylamine borane (TMAB) bath concentration on electrodeposited Ni-B/TiC nanocomposite coatings**
Ünal E., YAŞAR A., KARAHAN İ. H.
Ceramics International, vol.49, no.15, pp.25516-25529, 2023 (SCI-Expanded)
- IX. **Niobium Carbide Coatings Grown on Cold Work Tool Steel AISI D3 by Thermomechanical Processing: Characterization, Wear and Corrosion Behaviors**
Günen A., Açıkgöz H. H., KARAHAN İ. H.
Protection of Metals and Physical Chemistry of Surfaces, vol.59, no.4, pp.648-670, 2023 (SCI-Expanded)
- X. **Investigation of the Properties of Ni-B/TiC Nanocomposite Coatings Produced at Different Particle**

Concentrations by Electrodeposition

Ünal E., YAŞAR A., KARAHAN İ. H.

Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.54, no.6, pp.2340-2361, 2023 (SCI-Expanded)

- XI. **A study on the textural and radiation attenuation properties of nickel-cobalt-boron-based metal matrix materials**
USTA M., KARAHAN İ. H.
Radiation Physics and Chemistry, vol.204, 2023 (SCI-Expanded)
- XII. **The effect of metal rate on the gamma shielding parameters of hydroxyapatite at medical treatment energies**
Koksal O., APAYDIN G., KARAHAN İ. H., TOZAR A.
Applied Radiation and Isotopes, vol.190, 2022 (SCI-Expanded)
- XIII. **Effect of TMAB concentration on structural, mechanical and corrosion properties of electrodeposited Ni-B alloys**
KARAHAN İ. H., Aminifazl A., Golden T. D.
Journal of the Indian Chemical Society, vol.99, no.6, 2022 (SCI-Expanded)
- XIV. **Effect of current density on structural and radiation shielding characteristics of NiCoB/hBN composites**
USTA M., KARAHAN İ. H.
Radiation Physics and Chemistry, vol.194, 2022 (SCI-Expanded)
- XV. **Characterisation, hardness and corrosion behaviour of electrodeposited ZnFe and ZnFe/BN composite coatings**
KARAHAN İ. H., Yaylacı H.
Transactions of the Institute of Metal Finishing, vol.100, no.5, pp.245-252, 2022 (SCI-Expanded)
- XVI. **Effect of thermal degradation on the properties and wear behavior of Cr-V-C composite coatings grown on ductile iron**
Günen A., Kanca E., Karakaş M. S., Gök M. S., Kalkandelen M., Kurt B., Çetin M., KARAHAN İ. H.
Surface and Coatings Technology, vol.419, 2021 (SCI-Expanded)
- XVII. **Characterization of electrodeposited Ni-Cr/hBN composite coatings**
Demir M., Kanca E., KARAHAN İ. H.
Journal of Alloys and Compounds, vol.844, 2020 (SCI-Expanded)
- XVIII. **Characteristics and high temperature wear behavior of chrome vanadium carbide composite coatings produced by thermo-reactive diffusion**
Günen A., Kalkandelen M., Gök M. S., Kanca E., Kurt B., Karakaş M. S., KARAHAN İ. H., Çetin M.
Surface and Coatings Technology, vol.402, 2020 (SCI-Expanded)
- XIX. **Properties and corrosion behavior of chromium and vanadium carbide composite coatings produced on ductile cast iron by thermoreactive diffusion technique**
Günen A., Kalkandelen M., KARAHAN İ. H., Kurt B., Kanca E., Gök M. S., Karakaş M. S.
Journal of Engineering Materials and Technology, Transactions of the ASME, vol.142, no.4, 2020 (SCI-Expanded)
- XX. **Properties and Corrosion Resistance of AISI H13 Hot-Work Tool Steel with Borided B4C Powders**
Günen A., KARAHAN İ. H., Karakaş M. S., Kurt B., Kanca Y., Çay V. V., Yıldız M.
Metals and Materials International, vol.26, no.9, pp.1329-1340, 2020 (SCI-Expanded)
- XXI. **Effect of octylphenyl ether group nonionic surfactant on the electrodeposition of the hexagonal boron nitride reinforced Ni-B matrix composite coatings**
TOZAR A., KARAHAN İ. H.
Surface and Coatings Technology, vol.381, 2020 (SCI-Expanded)
- XXII. **Electrophoretic deposition of collagen-reinforced HA/CTS biocomposite coatings**
TOZAR A., KARAHAN İ. H.
Bioinspired, Biomimetic and Nanobiomaterials, vol.8, no.4, pp.271-278, 2019 (SCI-Expanded)
- XXIII. **Optimization of the Electrophoretic Deposition Parameters for Biocomposite Hydroxyapatite/Chitosan/Collagen/h-BN Coatings on Ti6Al4V Biomedical Implants**

- TOZAR A., KARAHAN İ. H., YÜCEL Y.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.50, no.2, pp.1009-1020, 2019 (SCI-Expanded)
- XXIV. **Effect of current density on the corrosion protection performance of polyaniline coated AISI 4140 steel**
KARAHAN İ. H.
Transactions of the Institute of Metal Finishing, vol.97, no.1, pp.48-52, 2019 (SCI-Expanded)
- XXV. **A Comparative Study on the Effects of Different Thermochemical Coating Techniques on Corrosion Resistance of STKM-13A Steel**
Günen A., Kanca Y., KARAHAN İ. H., Karakaş M. S., Gök M. S., Kanca E., Çürük A.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.49, no.11, pp.5833-5847, 2018 (SCI-Expanded)
- XXVI. **Effects of ultrasonic agitation prior to deposition and additives in the bath on electrodeposited Ni-B/hBN composite coatings**
Ünal E., KARAHAN İ. H.
Journal of Alloys and Compounds, vol.763, pp.329-341, 2018 (SCI-Expanded)
- XXVII. **A comprehensive study on electrophoretic deposition of a novel type of collagen and hexagonal boron nitride reinforced hydroxyapatite/chitosan biocomposite coating**
TOZAR A., KARAHAN İ. H.
Applied Surface Science, vol.452, pp.322-336, 2018 (SCI-Expanded)
- XXVIII. **Genetic programming modelling for the electrical resistivity of Cu-Zn thin films**
KARAHAN İ. H., Ozdemir R.
Pramana - Journal of Physics, vol.91, no.3, 2018 (SCI-Expanded)
- XXIX. **Chemical Analysis of Hydroxyapatite Artificial Bone Powders by Energy Dispersive X-Ray Fluorescence Spectrometry (EDXRF)**
Koksal O., APAYDIN G., Cengiz E., Samek L., KARAHAN İ. H., TOZAR A., Lankosz M.
Guang Pu Xue Yu Guang Pu Fen Xi/Spectroscopy and Spectral Analysis, vol.38, no.8, pp.2645-2649, 2018 (SCI-Expanded)
- XXX. **Modeling corrosion performance of the hydroxyapatite coated CoCrMo biomaterial alloys**
Coşkun M. İ., KARAHAN İ. H.
Journal of Alloys and Compounds, vol.745, pp.840-848, 2018 (SCI-Expanded)
- XXXI. **A comparative study on the effect of collagen and h-BN reinforcement of hydroxyapatite/chitosan biocomposite coatings electrophoretically deposited on Ti-6Al-4V biomedical implants**
TOZAR A., KARAHAN İ. H.
Surface and Coatings Technology, vol.340, pp.167-176, 2018 (SCI-Expanded)
- XXXII. **Effects of ultrasonic agitation time on wet chemical synthesis of nanohydroxyapatite**
TOZAR A., KARAHAN İ. H.
Bioinspired, Biomimetic and Nanobiomaterials, vol.7, no.3, pp.149-158, 2018 (SCI-Expanded)
- XXXIII. **Electronic structure study of the bimetallic Cu_{1-x}Zn_x alloy thin films**
Ozkendir O. M., Cengiz E., Mirzaei M., KARAHAN İ. H., Özdemir R., Klysubun W.
Materials Technology, vol.33, no.3, pp.193-197, 2018 (SCI-Expanded)
- XXXIV. **Production and characterization of electrodeposited Ni-B/hBN composite coatings**
Ünal E., KARAHAN İ. H.
Surface and Coatings Technology, vol.333, pp.125-137, 2018 (SCI-Expanded)
- XXXV. **Investigation of the structural and magnetic properties of the Cobalt-Nickel alloys fabricated in various electrolyte solutions**
Özdemir R., Korkmaz C., KARAHAN İ. H.
Acta Physica Polonica A, vol.132, no.3, pp.1045-1049, 2017 (SCI-Expanded)
- XXXVI. **Phase formation in electrodeposited Cu-Zn alloy films produced from ultrasonicated solutions**
YURDAL K., KARAHAN İ. H.
Acta Physica Polonica A, vol.132, no.3, pp.1091-1094, 2017 (SCI-Expanded)

- XXXVII. **A cyclic voltammetry study on Electrodeposition of Cu-Zn alloy films: Effect of ultrasonication time**
YURDAL K., KARAHAN İ. H.
Acta Physica Polonica A, vol.132, no.3, pp.1087-1090, 2017 (SCI-Expanded)
- XXXVIII. **The investigation of K-shell fluorescence parameters of Zn-Fe alloys with different grain size and microstrain values**
Kup Aylikci N., Sampaio J., Kahoul A., Aylikci V., KARAHAN İ. H., Guerra M., Santos J., Marques J., TIRAŞOĞLU E.
X-Ray Spectrometry, vol.46, no.4, pp.242-251, 2017 (SCI-Expanded)
- XXXIX. **A Study on the Electrodeposited Cu-Zn Alloy Thin Films**
Özdemir R., KARAHAN İ. H., Karabulut O.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.47, no.11, pp.5609-5617, 2016 (SCI-Expanded)
- XL. **Modeling the Effect of Temperature and Potential on the In Vitro Corrosion Performance of Biomedical Hydroxyapatite Coatings**
Coşkun M. İ., KARAHAN İ. H., YÜCEL Y., Golden T. D.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.47, no.10, pp.5169-5180, 2016 (SCI-Expanded)
- XLI. **Optimization of electrochemical step deposition for bioceramic hydroxyapatite coatings on CoCrMo implants**
İbrahim Coşkun M., KARAHAN İ. H., YÜCEL Y., Golden T. D.
Surface and Coatings Technology, vol.301, pp.42-53, 2016 (SCI-Expanded)
- XLII. **Corrosion properties of AISI 4140 industrial steels coated with aniline in different storage conditions**
KARAHAN İ. H.
Acta Physica Polonica A, vol.130, no.1, pp.286-288, 2016 (SCI-Expanded)
- XLIII. **Electrodeposition and corrosive properties of environmental ZnFe/polyaniline on low carbon steel**
KARAHAN İ. H., Tiltıl F.
Acta Physica Polonica A, vol.130, no.1, pp.282-285, 2016 (SCI-Expanded)
- XLIV. **Effects of blanking speed on the shear surface of mild steel (St37)**
Kanca E., Eyercioglu O., KARAHAN İ. H., Günen A., Göv K.
Acta Physica Polonica A, vol.130, no.1, pp.370-374, 2016 (SCI-Expanded)
- XLV. **Computer-Assisted Optimization of Electrodeposited Hydroxyapatite Coating Parameters on Medical Alloys**
İbrahim Coşkun M., KARAHAN İ. H., YÜCEL Y., Golden T. D.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.47, no.4, pp.1828-1841, 2016 (SCI-Expanded)
- XLVI. **The formation of passive layers on zinc based platings**
ÖZYILMAZ A. T., ÖZYILMAZ G., KARAHAN İ. H.
Acta Chimica Slovenica, vol.63, no.4, pp.809-821, 2016 (SCI-Expanded)
- XLVII. **Optimized electrodeposition concentrations for hydroxyapatite coatings on CoCrMo biomedical alloys by computational techniques**
Coşkun M. İ., KARAHAN İ. H., YÜCEL Y.
Electrochimica Acta, vol.150, pp.46-54, 2014 (SCI-Expanded)
- XLVIII. **Use of n-type semiconductor silicon as substrate material for electrodeposition of Zn_{1-x}Fe_x alloy thin films**
İlimbey I., Yurdal K., Bakkaloğlu Ö. F., KARAHAN İ. H., Bedir M.
Applied Surface Science, vol.318, pp.305-308, 2014 (SCI-Expanded)
- XLIX. **Different copolymer films on ZnFeCo particles: Synthesis and anticorrosion properties**
ÖZYILMAZ A. T., Avsar B., ÖZYILMAZ G., KARAHAN İ. H., Camurcu T., Colak F.
Applied Surface Science, vol.318, pp.262-268, 2014 (SCI-Expanded)
- L. **Structural and corrosion protection properties of electrochemically deposited nano-sized Zn-Ni alloy coatings**

- TOZAR A., KARAHAN İ. H.
Applied Surface Science, vol.318, pp.15-23, 2014 (SCI-Expanded)
- LII. **Effect of Cu concentration on the formation of Cu 1-x Zn x shape memory alloy thin films**
KARAHAN İ. H., Özdemir R.
Applied Surface Science, vol.318, pp.100-104, 2014 (SCI-Expanded)
- LIII. **Electrodeposition and properties of Zn, Cu, and Cu 1-x Zn x thin films**
Özdemir R., KARAHAN İ. H.
Applied Surface Science, vol.318, pp.314-318, 2014 (SCI-Expanded)
- LIV. **Corrosion inhibition performance of polymer-alloy bilayer coatings: Electropolymerised polyaniline and electrodeposited ZnNi with different layer orders**
KARAHAN İ. H., TOZAR A.
Transactions of the Institute of Metal Finishing, vol.92, no.5, pp.262-271, 2014 (SCI-Expanded)
- LVI. **Electrochemical synthesis of polyaniline films on zinc-cobalt alloy deposited carbon steel surface in sodium oxalate**
ÖZYILMAZ A. T., Akdag A., KARAHAN İ. H., ÖZYILMAZ G.
Progress in Organic Coatings, vol.77, no.4, pp.872-879, 2014 (SCI-Expanded)
- LVI. **Alloying effect on K-shell fluorescence parameters of porous NiTi shape memory alloys**
Cengiz E., Ozkendir O., Kaya M., TIRAŞOĞLU E., KARAHAN İ. H., Kimura S., Hajiri T.
Journal of Electron Spectroscopy and Related Phenomena, vol.192, pp.55-60, 2014 (SCI-Expanded)
- LVI. **Study of effect of boric acid on Zn-Co alloy electrodeposition from acid baths and on composition, morphology and structure of deposit**
KARAHAN İ. H., Çetinkara H.
Transactions of the Institute of Metal Finishing, vol.89, no.2, pp.99-103, 2011 (SCI-Expanded)
- LVII. **Empirical modeling of magnetoresistance and electrical resistivity properties of electrodeposited CuCoNi alloys**
Karahani I. H., Bakkaloglu Ö. F., Güder H.
Journal of Optoelectronics and Advanced Materials, vol.11, no.3, pp.313-319, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Farklı Moleküler Ağırlıklı Kitosan Katkılı Hidroksiapatit/Kitosan Biyokompozit Kaplamaların Araştırılması**
Dilsizoğlu T., KARAHAN İ. H., TOZAR A.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.3, pp.1703-1712, 2023 (Peer-Reviewed Journal)
- II. **Ni-B/TiC Nanokompozit Kaplamaların Korozyon Dayanımlarının Elektrokimyasal Empedans Spektroskopisi (EES) Yöntemi ile Analizi**
ÜNAL E., YAŞAR A., KARAHAN İ. H.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, 2023 (Peer-Reviewed Journal)
- III. **Investigation of the X-ray fluorescence parameters and valance electronic structure for Ni in Ni-B/hBN coating materials with doped TMAB and saccharine**
KÖKSAL O. K., Karahan İ. H.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, no.IOCENS'21 Konferansı Ek Sayısı, pp.89-97, 2022 (Peer-Reviewed Journal)
- IV. **Ni-B/hBN katkıli TMAB ve sakarinli kaplama malzemelerinde Ni için X-ışını floresans parametrelerinin ve valans elektronik yapısının incelenmesi**
KÖKSAL O. K., KARAHAN İ. H.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, 2022 (Peer-Reviewed Journal)
- V. **The Effect of Current Density on the Crystal Structure and Hardness Properties of Electrochemically Deposited Ni-B Alloy Coatings**
ÜNAL E., Yaşar A., Karahan İ. H.

- Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.2, pp.439-447, 2022 (Peer-Reviewed Journal)
- VI. **Determination of Corrosion Resistance of Ni-B/TiB₂ Electrodeposited Composite Coatings**
ÜNAL E., YAŞAR A., KARAHAN İ. H.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.36, no.3, pp.709-718, 2021 (Peer-Reviewed Journal)
- VII. **Elektrokimyasal Depolama Yöntemi ile AISI 304 Çeliği Yüzeyine Biriktirilen Ni-B/TiB₂ Kompozit Kaplamaların Kristal Yapı ve Bazı Mekanik Özelliklerinin İncelenmesi**
ÜNAL E., YAŞAR A., KARAHAN İ. H.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.36, no.4, pp.847-860, 2021 (Peer-Reviewed Journal)
- VIII. **Effect of Electrolyte Components on Electrodeposited Nanocomposite Coatings**
ÜNAL E. S., YAŞAR A., KARAHAN İ. H.
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- IX. **A research on the gamma ray attenuation characteristics for real bone and manganese substituted artificial bone dust**
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Metrics

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Citation (WoS): 1246

Citation (Scopus): 1430

H-Index (WoS): 20

H-Index (Scopus): 22

Non Academic Experience

Milli eğitim Bakanlıđı