

Prof. ZAFER EVİS

Personal Information

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International Researcher IDs

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ScopusID: 14070067300

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Education Information

Doctorate, Rensselaer Polytechnic Institute, Mühendislik Bilimi, United States Of America 2000 - 2003

Postgraduate, Rensselaer Polytechnic Institute, Malzeme Muh, United States Of America 1998 - 1999

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1991 - 1996

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, biyoseramikler, Rensselaer Polytechnic Institute, Mühendislik Bilimi, 2003

Postgraduate, biyoseramikler, Rensselaer Polytechnic Institute, Malzeme Muh, 1999

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Biomaterials, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2015 -
Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2010
- 2015

Academic and Administrative Experience

Supervised Theses

- Tezcaner A., Evis Z., Boron reinforced fibroin membrane for periosteal tissue engineering, Doctorate, S.AKBABA(Student), 2024
- Keskin D., Evis Z., Ba doped baghdadite, PHBV/PCL, Composite scaffolds, Bone tissue engineering, Postgraduate, S.Sadreddini(Student), 2023
- EVİS Z., Experimental and numerical investigation of mechanical properties of additively manufactured auxetic structures, Postgraduate, M.TAŞDEMİR(Student), 2022
- EVİS Z., Production and characterization of simple, face-centered and diamond cubic lattices by fused deposition modeling using polylactic acid, Postgraduate, A.DÖNMEZ(Student), 2022
- Evis Z., Öztürk F., Machining parameters and distortion analyses in end milling of AA2050 and AA7050, Postgraduate, E.ATEŞ(Student), 2022
- Tezcaner A., Evis Z., Composite boron doped hydroxyapatite-tricalcium phosphate/alginate/gelatin hydrogel coating on titanium implants: Osseointegration and immunomodulation study, Doctorate, A.ENGİN(Student), 2022
- Keskin D., Evis Z., Fabrication and evaluation of sulfonated poly(ether ether ketone) and fluoridated hydroxyapatite composite scaffolds for bone tissue engineering, Postgraduate, A.NOSRATINIA(Student), 2022
- Tezcaner A., Evis Z., Synthesis and functionalization of graphene oxide nanocomposites for anticancer drug delivery, Postgraduate, H.KAMAL(Student), 2022
- EVİS Z., Lanthanum doped dicalcium phosphate mixed with graphene oxide bone cements as a potential material in biomedical applications, Doctorate, A.MOTAMENİ(Student), 2021
- EVİS Z., Re-entrant şekilli özketik yapıların ve bor nitrür katkılı filamentlerin katmanlı imalat ile üretimi ve karakterizasyonu, Postgraduate, A.TAHA(Student), 2021
- EVİS Z., Coating of bismuth and carbonate doped hydroxyapatite on acid etched Ti6Al4V via biomimetic method; investigation of mechanical, structural and biological properties, Doctorate, T.HACIOĞLU(Student), 2018
- EVİS Z., Microstructural, biological and mechanical investigations of hydroxyapatite- beta-tricalcium phosphate composites doped with strontium and fluoride, Postgraduate, E.POURREZA(Student), 2016
- EVİS Z., Microstructural, biological and mechanical investigations of hydroxyapatite-β-tricalcium phosphate composites doped with strontium and fluoride, Postgraduate, E.Pourreza(Student), 2016
- EVİS Z., Surface morphology investigation of a biodegradable magnesium alloy, Doctorate, A.TAHMASEBİFAR(Student), 2015
- EVİS Z., A study on development of machinable calcium phosphate based bio-composites with zirconia, boron oxide and lanthanum oxide, Postgraduate, S.KHOSHSIMA(Student), 2015
- EVİS Z., AYDINOL M. K., Development and characterization of high power density cathode materials for lithium-ion batteries, Doctorate, Ş.DOĞU(Student), 2015
- EVİS Z., Manufacturing, mechanical and microstructural characterization of AZ91D magnesium alloy for biomedical applications, Postgraduate, S.MURAT(Student), 2015
- EVİS Z., Strontium doped calcium phosphate biomimetic coatings on Ti6Al4V plates, Postgraduate, M.AVCI(Student), 2015
- EVİS Z., BANERJEE S., Selenium doped calcium phosphate biomimetic coating on Ti6Al4V orthopedic implant material for anti-cancer and anti-bacterial purposes, Doctorate, B.YILMAZ(Student), 2014
- EVİS Z., Hidroksiapatit ve yarı kararlı zirkonya kompozitlerine itriyum florür (YF3) ilavesinin iç yapı ve mekanik özelliklerine etkisinin incelenmesi, Postgraduate, A.AYKUL(Student), 2013
- EVİS Z., Nano calcium phosphates doped with titanium and fluoride ions: Sinterability and stability of phases, Doctorate, S.GÜNGÖR(Student), 2012
- EVİS Z., An experimental study of mechanical properties of non enzymatically glycosylated bovine femur cortical bone, Doctorate, G.FINDIKOĞLU(Student), 2012
- EVİS Z., The synthesis of zinc, chloride and fluoride doped nano hydroxyapatites by precipitation method and investigation of their mechanical, structural and biological properties, Postgraduate, İ.UYSAL(Student), 2011

EVİS Z., An investigation of the microstructural and mechanical properties of tri-calcium phosphates doped with aluminum and fluoride ions, Postgraduate, A.TAHMASEBİFAR(Student), 2011

EVİS Z., DURUCAN C., An investigation of microstructure, microhardness and biocompatibility characteristics of yttrium hydroxyapatite doped with fluoride, Postgraduate, S.MİNE(Student), 2010

DURUCAN C., EVİS Z., Structural and mechanical investigations of magnesium and fluoride doped nano calcium phosphates, Postgraduate, Z.PINAR(Student), 2009

EVİS Z., Prediction of hexagonal lattice parameters of stoichiometric and non-stoichiometric apatites by artificial neural networks, Postgraduate, Ü.KOÇKAN(Student), 2009

TEZCANER A., EVİS Z., Structural, mechanical, and biocompatibility investigations of yttrium and fluoride doped nano hydroxyapatite, Postgraduate, B.BAŞAR(Student), 2009

Jury Memberships

Academic Staff Examination, Academic Staff Examination, Istanbul Technical University, February, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental and numerical investigation of mechanical properties of PLA-based auxetic structures**
Taşdemir M., TOKTAŞ İ., MOTAMENİ A., EVİS Z.
International Journal of Advanced Manufacturing Technology, vol.137, no.1, pp.83-103, 2025 (SCI-Expanded)
- II. **Effect of mandrel position on bending quality in the rotary draw bending process**
Ozcan B., EVİS Z., Ozturk F.
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2025 (SCI-Expanded)
- III. **A comparative review of machinability in AA2XXX and AA7XXX heat-treatable aluminum alloys: Focus on AA7050-T7451 and AA2050-T84**
Ates E., EVİS Z., Ozturk F.
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2025 (SCI-Expanded)
- IV. **Mechanical and biological evaluation of β -dicalcium silicate/dicalcium phosphate-based cements: promising materials for biomedical applications**
Alshemary A. Z., Marandi A. B., Ali D., Köse T., Dalgic A. D., MOTAMENİ A., EVİS Z.
Journal of Taibah University for Science, vol.19, no.1, 2025 (SCI-Expanded)
- V. **Influence of strut angle and radius on the energy absorption and failure mechanisms in 3-strut, 4-strut and 6-strut lattice structures**
Ture M. O., EVİS Z.
Materialprüfung/Materials Testing, vol.66, no.10, pp.1728-1738, 2024 (SCI-Expanded)
- VI. **Methods to improve antibacterial properties of PEEK: A review**
Uysal I., TEZCANER A., EVİS Z.
Biomedical Materials (Bristol), vol.19, no.2, 2024 (SCI-Expanded)
- VII. **Structural comparison of conventional and chiral auxetic morphed aircraft rib**
Inan C. Y., EVİS Z., Ozturk B.
Materialprüfung/Materials Testing, vol.66, no.1, pp.56-65, 2024 (SCI-Expanded)
- VIII. **A review, zirconia based dental materials**
NEZİR M., ÖZCAN S., Atilla A. O., EVİS Z.
Journal of the Australian Ceramic Society, 2024 (SCI-Expanded)
- IX. **Fibroin reinforced, strontium-doped calcium phosphate silicate cements for bone tissue engineering applications**
Işık G., PAZARÇEVİREN A. E., EVİS Z., TEZCANER A.

Journal of Materials Research, vol.38, no.23, pp.5017-5031, 2023 (SCI-Expanded)

- X. **Novel barium-doped-baghdadite incorporated PHBV-PCL composite fibrous scaffolds for bone tissue engineering**
Sadreddini S., Jodati H., Evis Z., Keskin D.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.148, 2023 (SCI-Expanded)
- XI. **Machining parameters and distortion analyses in end milling of AA2050 and AA7050**
Ates E., EVİS Z., ÖZTÜRK F.
International Journal of Advanced Manufacturing Technology, vol.128, no.7-8, pp.2915-2929, 2023 (SCI-Expanded)
- XII. **Alginate/gelatin/boron-doped hydroxyapatite-coated Ti implants: in vitro and in vivo evaluation of osseointegration**
Pazarçeviren A. E., Evis Z., Dikmen T., Altunbaş K., Yaprakçı M. V., Keskin D., Tezcaner A.
Bio-Design and Manufacturing, vol.6, no.3, pp.217-242, 2023 (SCI-Expanded)
- XIII. **Boron nitride nanofiber/Zn-doped hydroxyapatite/polycaprolactone scaffolds for bone tissue engineering applications**
Turhan E. A., Akbaba S., TEZCANER A., EVİS Z.
Biomaterials Advances, vol.148, 2023 (SCI-Expanded)
- XIV. **3D porous bioceramic based boron-doped hydroxyapatite/baghdadite composite scaffolds for bone tissue engineering**
Jodati H., EVİS Z., TEZCANER A., Alshemary A. Z., Motameni A.
Journal of the Mechanical Behavior of Biomedical Materials, vol.140, 2023 (SCI-Expanded)
- XV. **Additive manufacturing of hexagonal lattice structures: Tensile tests and validation**
Ture M. O., EVİS Z., ÖZTÜRK F.
Materialprüfung/Materials Testing, vol.65, no.4, pp.505-511, 2023 (SCI-Expanded)
- XVI. **Synthesis of baghdadite using modified sol-gel route and investigation of its properties for bone treatment applications**
Jodati H., TEZCANER A., EVİS Z., Alshemary A. Z., ÇELİK E.
Journal of the Korean Ceramic Society, vol.60, no.2, pp.381-398, 2023 (SCI-Expanded)
- XVII. **Functionalization of graphene oxide quantum dots for anticancer drug delivery**
Mohammed-Ahmed H. K., NAKİPOĞLU M., TEZCANER A., KESKİN D., EVİS Z.
Journal of Drug Delivery Science and Technology, vol.80, 2023 (SCI-Expanded)
- XVIII. **Synthesis and characterization of pure and Mg, Cu, Ag, and Sr doped calcium-deficient hydroxyapatite from brushite as precursor using the dissolution-precipitation method**
Lakrat M., Jodati H., Mejdoubi E. M., EVİS Z.
POWDER TECHNOLOGY, vol.413, 2023 (SCI-Expanded)
- XIX. **Nickel titanium alloys as orthodontic archwires: A narrative review**
Uysal I., Yilmaz B., Atilla A. O., EVİS Z.
Engineering Science and Technology, an International Journal, vol.36, 2022 (SCI-Expanded)
- XX. **Graphene oxide reinforced doped dicalcium phosphate bone cements for bone tissue regenerations**
Motameni A., Alshemary A. Z., Dalgic A. D., Keskin D., Evis Z.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.58, no.5, pp.1633-1647, 2022 (SCI-Expanded)
- XXI. **Optimization of spur gear pairs for aerospace applications**
Ocak B., EVİS Z., ÖZTÜRK F.
MATERIALS TESTING, vol.64, no.11, pp.1687-1698, 2022 (SCI-Expanded)
- XXII. **Bactericidal and in vitro osteogenic activity of nano sized cobalt-doped silicate hydroxyapatite**
Alshemary A. Z., Hussain R., Dalgic A. D., EVİS Z.
Ceramics International, vol.48, no.19, pp.28231-28239, 2022 (SCI-Expanded)
- XXIII. **Effects of the doping concentration of boron on physicochemical, mechanical, and biological properties of hydroxyapatite**
Jodati H., TEZCANER A., Alshemary A. Z., Şahin V., EVİS Z.
Ceramics International, vol.48, no.16, pp.22743-22758, 2022 (SCI-Expanded)

- XXIV. **Versatile-in-All-Trades: Multifunctional Boron-Doped Calcium-Deficient Hydroxyapatite Directs Immunomodulation and Regeneration**
Pazarçeviren A. E., Akbaba S., Evis Z., Tezcaner A.
ACS Biomaterials Science and Engineering, vol.8, no.7, pp.3038-3053, 2022 (SCI-Expanded)
- XXV. **A Review on Nanocomposites with Graphene Based Fillers in Poly(ether ether ketone)**
Oz Y., Yilmaz B., EVİS Z.
POLYMER SCIENCE SERIES A, vol.64, no.3, pp.145-160, 2022 (SCI-Expanded)
- XXVI. **Properties and applications of boron nitride nanotubes**
Turhan E. A., Pazarçeviren A. E., Evis Z., Tezcaner A.
NANOTECHNOLOGY, vol.33, no.24, 2022 (SCI-Expanded)
- XXVII. **Seamless and robust alginate/gelatin coating on Ti-6Al-4V as a gap filling interphase**
PAZARÇEVİREN A. E., Akbaba S., TEZCANER A., KESKİN D., EVİS Z.
APPLIED SURFACE SCIENCE, vol.581, 2022 (SCI-Expanded)
- XXVIII. **3D porous PCL-PEG-PCL / strontium, magnesium and boron multi-doped hydroxyapatite composite scaffolds for bone tissue engineering**
Yedekçi B., Tezcaner A., Yilmaz B., Demir T., Evis Z.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.125, 2022 (SCI-Expanded)
- XXIX. **In vitro and in vivo properties of graphene-incorporated scaffolds for bone defect repair**
Jodati H., Yilmaz B., Evis Z.
Ceramics International, vol.47, pp.29535-29549, 2021 (SCI-Expanded)
- XXX. **Effects of biomimetic synthesis route and sintering temperature on physicochemical, microstructural, and mechanical properties of hydroxyapatite**
Kaya Y., Jodati H., Evis Z.
Journal of the Australian Ceramic Society, vol.57, no.4, pp.1117-1129, 2021 (SCI-Expanded)
- XXXI. **Zn-doped hydroxyapatite in biomedical applications**
Uysal I., Yilmaz B., EVİS Z.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.57, no.3, pp.869-897, 2021 (SCI-Expanded)
- XXXII. **Biomechanical Evaluation of an Injectable Alginate / Dicalcium Phosphate Cement Composites for Bone Tissue Engineering**
Alshemary A. Z., Bilgin S., Işık G., Motameni A., TEZCANER A., EVİS Z.
Journal of the Mechanical Behavior of Biomedical Materials, vol.118, 2021 (SCI-Expanded)
- XXXIII. **A review of synthesis methods, properties and use of monetite cements as filler for bone defects**
Motameni A., Alshemary A. Z., EVİS Z.
CERAMICS INTERNATIONAL, vol.47, no.10, pp.13245-13256, 2021 (SCI-Expanded)
- XXXIV. **Radiosensitization induced by zinc-doped hydroxyapatite nanoparticles in breast cancer cells**
Yedekçi F. Y., Gedik E., Evis Z., Dogan L., Özyiğit G., Gürkaynak M.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.18, no.3, pp.563-572, 2021 (SCI-Expanded)
- XXXV. **Lanthanum doped dicalcium phosphate bone cements for potential use as filler for bone defects**
Motameni A., Alshemary A. Z., DALGIÇ A. D., KESKİN D., EVİS Z.
MATERIALS TODAY COMMUNICATIONS, vol.26, 2021 (SCI-Expanded)
- XXXVI. **Additive manufacturing of biodegradable magnesium implants and scaffolds: Review of the recent advances and research trends**
Sezer N., EVİS Z., Koc M.
JOURNAL OF MAGNESIUM AND ALLOYS, vol.9, no.2, pp.392-415, 2021 (SCI-Expanded)
- XXXVII. **Boron-doped Biphasic Hydroxyapatite/beta-Tricalcium Phosphate for Bone Tissue Engineering**
PAZARÇEVİREN A. E., TEZCANER A., KESKİN D., KOLUKISA S. T., SURDEM S., EVİS Z.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.3, pp.968-980, 2021 (SCI-Expanded)
- XXXVIII. **Synthesis and sintering of B, Sr, Mg multi-doped hydroxyapatites: Structural, mechanical and biological characterization**
YEDEKÇİ B., TEZCANER A., Alshemary A. Z., Yilmaz B., DEMİR T., EVİS Z.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.115, 2021 (SCI-Expanded)

- XXXIX. **Multifunctional natural polymer-based metallic implant surface modifications**
Pazarçeviren A. E., Tezcaner A., Evis Z.
BIOINTERPHASES, vol.16, no.2, 2021 (SCI-Expanded)
- XL. **Effects of surface pretreatments and coating period on hydroxyapatite coating of Ti6Al4V alloy**
HACIOĞLU T., EVİS Z., TEZCANER A., AYDINOL M. K.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.56, no.2, pp.545-557, 2020 (SCI-Expanded)
- XLI. **Historical development of simulated body fluids used in biomedical applications: A review**
Yilmaz B., PAZARÇEVİREN A. E., TEZCANER A., EVİS Z.
MICROCHEMICAL JOURNAL, vol.155, 2020 (SCI-Expanded)
- XLII. **Synthesis and characterization of magnesium-lanthanum dual doped bioactive glasses**
Jodati H., Guner B., Evis Z., Keskin D., Tezcaner A.
CERAMICS INTERNATIONAL, vol.46, pp.10503-10511, 2020 (SCI-Expanded)
- XLIII. **Porous clinoptilolite-nano biphasic calcium phosphate scaffolds loaded with human dental pulp stem cells for load bearing orthopedic applications**
Alshemary A. Z. G., Pazarçeviren A. E., Keskin D., Tezcaner A., Hussain R., Evis Z.
BIOMEDICAL MATERIALS, vol.14, 2019 (SCI-Expanded)
- XLIV. **Resorbable PCEC/gelatin-bismuth doped bioglass-graphene oxide bilayer membranes for guided bone regeneration**
Pazarçeviren A. E., Evis Z., Keskin D., Tezcaner A.
BIOMEDICAL MATERIALS, vol.14, 2019 (SCI-Expanded)
- XLV. **In vitro performance of a nanobiocomposite scaffold containing boron-modified bioactive glass nanoparticles for dentin regeneration**
Rad R. M., Pazarçeviren E., Akguen E. E., Evis Z., Keskin D., Sahin S., Tezcaner A.
JOURNAL OF BIOMATERIALS APPLICATIONS, vol.33, pp.834-853, 2019 (SCI-Expanded)
- XLVI. **Co-doped hydroxyapatites as potential materials for biomedical applications**
YILMAZ B., ALSHEMARY A. Z. G., EVİS Z.
MICROCHEMICAL JOURNAL, vol.144, pp.443-453, 2019 (SCI-Expanded)
- XLVII. **Investigation of surface structure and biocompatibility of chitosan-coated zirconia and alumina dental abutments**
Kalyoncuoglu U. T., Yilmaz B., Koc S. G., EVİS Z., ARPACI P. U., Kansu G.
CLINICAL IMPLANT DENTISTRY AND RELATED RESEARCH, vol.20, no.6, pp.1022-1029, 2018 (SCI-Expanded)
- XLVIII. **Structural and biological assessment of boron doped bioactive glass nanoparticles for dental tissue applications**
Rad R. M., Alshemary A. Z. G., Evis Z., Keskin D., Altunbas K., Tezcaner A.
CERAMICS INTERNATIONAL, vol.44, pp.9854-9864, 2018 (SCI-Expanded)
- XLIX. **Silicate-doped nano-hydroxyapatite/graphene oxide composite reinforced fibrous scaffolds for bone tissue engineering**
DALGIÇ A. D., ALSHEMARY A. Z. G., TEZCANER A., KESKİN D., EVİS Z.
JOURNAL OF BIOMATERIALS APPLICATIONS, vol.32, no.10, pp.1392-1405, 2018 (SCI-Expanded)
- L. **Side-Effects of Convulsive Seizures and Anti-Seizure Therapy on Bone in a Rat Model of Epilepsy**
Ustaoglu S. G., EVİS Z., İLBAY G., Boskey A. L., Severcan F.
APPLIED SPECTROSCOPY, vol.72, no.5, pp.689-705, 2018 (SCI-Expanded)
- LI. **Physico-chemical and biological properties of hydroxyapatite extracted from chicken beaks**
ALSHEMARY A. Z. G., AKRAM M., TAHA A., TEZCANER A., EVİS Z., HUSSAIN R.
MATERIALS LETTERS, vol.215, pp.169-172, 2018 (SCI-Expanded)
- LII. **Review of magnesium-based biomaterials and their applications**
Sezer N., EVİS Z., Kayhan S. M., Tahmasebifar A., Koc M.
JOURNAL OF MAGNESIUM AND ALLOYS, vol.6, no.1, pp.23-43, 2018 (SCI-Expanded)
- LIII. **Investigation of bismuth doped bioglass/graphene oxide nanocomposites for bone tissue engineering**
PAZARÇEVİREN A. E., TAHMASEBİFAR A., TEZCANER A., KESKİN D., EVİS Z.

CERAMICS INTERNATIONAL, vol.44, no.4, pp.3791-3799, 2018 (SCI-Expanded)

- LIV. **Fe³⁺/SeO₄²⁻ dual doped nano hydroxyapatite: A novel material for biomedical applications**
ALSHEMARY A. Z. G., PAZARÇEVİREN A. E., TEZCANER A., EVİS Z.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.106, no.1, pp.340-352, 2018 (SCI-Expanded)
- LV. **Impact of B₂O₃ and La₂O₃ addition on structural, mechanical and biological properties of hydroxyapatite**
KHOSHŞİMA S., ALSHEMARY A. Z. G., TEZCANER A., SURDEM S., EVİS Z.
PROCESSING AND APPLICATION OF CERAMICS, vol.12, no.2, pp.143-152, 2018 (SCI-Expanded)
- LVI. **Strontium doped hydroxyapatite biomimetic coatings on Ti6Al4V plates**
AVCI M., YILMAZ B., TEZCANER A., EVİS Z.
CERAMICS INTERNATIONAL, vol.43, no.12, pp.9431-9436, 2017 (SCI-Expanded)
- LVII. **Mechanical, electrochemical and biocompatibility evaluation of AZ91D magnesium alloy as a biomaterial**
Tahmasebifar A., KAYHAN S. M., EVİS Z., TEZCANER A., Cinici H., Koc M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.687, pp.906-919, 2016 (SCI-Expanded)
- LVIII. **Early Alterations in Bone Characteristics of Type I Diabetic Rat Femur: A Fourier Transform Infrared (FT-IR) Imaging Study**
Bozkurt O., BİLGİN M. D., EVİS Z., Pleshko N., Severcan F.
APPLIED SPECTROSCOPY, vol.70, no.12, pp.2005-2015, 2016 (SCI-Expanded)
- LIX. **Structural, mechanical and biological properties of hydroxyapatite-zirconia-lanthanum oxide composites**
Khoshsima S., Yilmaz B., TEZCANER A., EVİS Z.
CERAMICS INTERNATIONAL, vol.42, no.14, pp.15773-15779, 2016 (SCI-Expanded)
- LX. **Application of Electric Resistance Heating Method on Titanium Hot Forming at Industrial Scale**
Ozturk F., Ece R. E., Polat N., Koksall A., EVİS Z., Sheikh-Ahmad J. Y.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.41, no.11, pp.4441-4448, 2016 (SCI-Expanded)
- LXI. **Surface Characterization and Biocompatibility of Selenium-Doped Hydroxyapatite Coating on Titanium Alloy**
Yilmaz B., EVİS Z., TEZCANER A., BANERJEE S.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.13, no.6, pp.1059-1068, 2016 (SCI-Expanded)
- LXII. **Thermal history and microstructure during friction stir welding of Al-Mg alloy**
Sheikh-Ahmad J. Y., Ozturk F., Jarrar F., EVİS Z.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.86, pp.1071-1081, 2016 (SCI-Expanded)
- LXIII. **Experimental and numerical investigations for mechanical and microstructural characterization of micro-manufactured AZ91D magnesium alloy disks for biomedical applications**
Kayhan S. M., TAHMASEBİFAR A., KOÇ M., Usta Y., TEZCANER A., EVİS Z.
MATERIALS & DESIGN, vol.93, pp.397-408, 2016 (SCI-Expanded)
- LXIV. **Surface Characterization and Biocompatibility of SeleniumDoped Hydroxyapatite Coating on Titanium Alloy**
YILMAZ B., TEZCANER A., EVİS Z., BANERJEE S.
Ceramics International, 2016 (SCI-Expanded)
- LXV. **Mesoporous strontium doped nano sized sulphate hydroxyapatite as a novel biomaterial for bone tissue applications**
Alshemary A. Z., PAZARÇEVİREN A. E., TEZCANER A., EVİS Z.
RSC ADVANCES, vol.6, no.72, pp.68058-68071, 2016 (SCI-Expanded)
- LXVI. **A direct role of collagen glycation in bone fracture**
Poundarik A. A., Wu P., Evis Z., Sroga G. E., Ural A., Rubin M., Vashishth D.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.52, pp.120-130, 2015 (SCI-

Expanded)

- LXVII. **EVALUATION OF THE CHITOSAN-COATING EFFECTIVENESS ON A DENTAL TITANIUM ALLOY IN TERMS OF MICROBIAL AND FIBROBLASTIC ATTACHMENT AND THE EFFECT OF AGING**
Kalyoncuoglu U. T., Yilmaz B., Gungor S., EVİS Z., UYAR P., AKCA G., Kansu G.
MATERIALI IN TEHNOLOGIJE, vol.49, no.6, pp.925-931, 2015 (SCI-Expanded)
- LXVIII. **Effect of calcium fluoride on mechanical behavior and sinterability of nano-hydroxyapatite and titania composites**
KUTBAY I., Yilmaz B., EVİS Z., USTA M.
CERAMICS INTERNATIONAL, vol.40, no.9, pp.14817-14826, 2014 (SCI-Expanded)
- LXIX. **Co-doping of hydroxyapatite with zinc and fluoride improves mechanical and biological properties of hydroxyapatite**
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EVİS Z., Avcı M., Yılmaz B., Project Supported by Higher Education Institutions, Ti6Al4V plakaların biyomimetik yöntem ile farklı Ca/P oranlarında kalsiyumfosfat ile kaplanması, 2014 - 2014

EVİS Z., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

EVİS Z., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

EVİS Z., TAHMASEBIFAR A., Project Supported by Higher Education Institutions, MİKRO-YÜZEY YAPILI MAGNEZYUM-TABANLI İMPLANT TASARIMI VE TEST EDİLMESİ, 2013 - 2013

EVİS Z., Project Supported by Higher Education Institutions, Enzimatik Olmayan Yolla Glikolize Olan İnek Kemik Dokusunun Mekanik Özelliklerinin Belirlenmesi, 2010 - 2010

Activities in Scientific Journals

Gazi University Journal of Science Part A: Engineering and Innovation, Committee Member, 2020 - Continues

BOR DERGİSİ, First Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

TÜBA, Associate Member, 2015 - Continues

Scientific Refereeing

CERAMICS INTERNATIONAL, SCI Journal, August 2023

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, August 2023

Journal of Magnesium and Alloys, SCI Journal, August 2023

PROCESSING AND APPLICATION OF CERAMICS, SCI Journal, July 2023

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, May 2023

AMERICAN CERAMIC SOCIETY, JOURNAL, SCI Journal, May 2023

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, May 2023

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, SCI Journal, April 2023

SURFACE TOPOGRAPHY: METROLOGY AND PROPERTIES, SCI Journal, April 2023

JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, April 2023
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AIMS BIOENGINEERING, Journal Indexed in SSCI, March 2023
MATERIALS RESEARCH EXPRESS, SCI Journal, March 2023
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART H: JOURNAL OF ENGINEERING IN MEDICINE,
SCI Journal, March 2023
GELS, SCI Journal, March 2023
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, February 2023
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JOURNAL OF BIOMATERIALS SCIENCE, POLYMER EDITION, SCI Journal, February 2023
MATERIALS LETTERS, National Scientific Refreed Journal, February 2023
ADVANCED MATERIALS, SCI Journal, February 2023
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MATERIALS TODAY COMMUNICATIONS, SCI Journal, January 2023
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CERAMICS INTERNATIONAL, SCI Journal, January 2023
JOURNAL OF NANOMATERIALS, SCI Journal, January 2023
MICROSCOPY RESEARCH AND TECHNIQUE, Journal Indexed in SCI-E, December 2022
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MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, December 2022
HELIYON, National Scientific Refreed Journal, December 2022
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MATERIALS SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, December 2022
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MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, December 2022
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2022
MATERIALS TODAY COMMUNICATIONS, SCI Journal, September 2022
CERAMICS INTERNATIONAL, SCI Journal, September 2022
MATERIALS SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, August 2022
INTERNATIONAL JOURNAL OF BIOMATERIALS, Journal Indexed in ESCI, July 2022
JOURNAL OF RARE EARTHS, SCI Journal, July 2022
Results in Engineering, SCI Journal, July 2022
Journal of Asian Ceramic Societies, SCI Journal, June 2022
ACS BIOMATERIALS SCIENCE & ENGINEERING, SCI Journal, June 2022
INTERNATIONAL JOURNAL OF MINERALS, METALLURGY AND MATERIALS, SCI Journal, May 2022
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MATERIALS SCIENCE AND ENGINEERING C, SCI Journal, January 2022
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PROCESSING AND APPLICATION OF CERAMICS, SCI Journal, January 2022
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CERAMICS INTERNATIONAL, SCI Journal, November 2021
Journal of Magnesium and Alloys, SCI Journal, November 2021
AMERICAN CERAMIC SOCIETY, JOURNAL, SCI Journal, August 2021
BIOMEDICAL MATERIALS (BRISTOL, ENGLAND), SCI Journal, July 2021
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JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, SCI Journal, May 2021
AMERICAN CERAMIC SOCIETY, JOURNAL, SCI Journal, May 2021
SURFACE REVIEW AND LETTERS, SCI Journal, May 2021
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Journal of Magnesium and Alloys, SCI Journal, February 2021
JOURNAL OF MATERIALS SCIENCE, SCI Journal, January 2021
GAZI UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, January 2021
journal of materials engineering and structures, SCI Journal, January 2021
Journal of Architectural Design and construction Technology, Other journals, December 2020
JOURNAL OF BIONIC ENGINEERING, National Scientific Refreed Journal, December 2020
BOR DERGİSİ, National Scientific Refreed Journal, October 2020
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, September 2020
mrs advances, Other journals, September 2020
MATERIALS TODAY COMMUNICATIONS, SCI Journal, September 2020
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JOURNAL OF MATERIALS CHEMISTRY B, SCI Journal, August 2020
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CELL TRANSPLANTATION, SCI Journal, July 2020
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, July 2020
SN APPLIED SCIENCES, National Scientific Refreed Journal, June 2020
NEW JOURNAL OF CHEMISTRY, SCI Journal, June 2020
JOURNAL OF MAGNESIUM AND ALLOYS, SCI Journal, June 2020
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, National Scientific Refreed Journal, May 2020
JOURNAL OF MAGNESIUM AND ALLOYS, SCI Journal, February 2020
CORROSION SCIENCE, SCI Journal, February 2020
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JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, January 2020

APPLIED SURFACE SCIENCE, SCI Journal, January 2020
SCIENTIFIC REPORTS, SCI Journal, January 2020
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, November 2019
MATERIALS LETTERS, SCI Journal, November 2019
CHEMISTRY SELECT, Other journals, November 2019
JOURNAL OF MAGNESIUM AND ALLOYS, National Scientific Refreed Journal, November 2019
ACS BIOMATERIALS-SCIENCE & ENGINEERING, National Scientific Refreed Journal, October 2019
BIOMEDICAL MATERIALS, SCI Journal, October 2019
JOURNAL OF BIONIC ENGINEERING, SCI Journal, October 2019
PROGRESS IN NATURAL SCIENCE, SCI Journal, October 2019
ACS BIOMATERIALS-SCIENCE & ENGINEERING, SCI Journal, September 2019
LANGMUIR, SCI Journal, September 2019
SURFACE REVIEW AND LETTERS, SCI Journal, September 2019
JOURNAL OF SCIENTIFIC PERSPECTIVES, Other journals, September 2019
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, SCI Journal, August 2019
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, National Scientific Refreed Journal, July 2019
JOURNAL OF MATERIALS SCIENCE, SCI Journal, July 2019
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, SCI Journal, July 2019
vessel plus, Other journals, May 2019
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, SCI Journal, May 2019
JOURNAL OF MATERIALS SCIENCE, SCI Journal, April 2019
International journal of advances in engineering and pure sciences (Online), National Scientific Refreed Journal, March 2019
SURFACE REVIEW AND LETTERS, SCI Journal, March 2019
MATERIALS CHEMISTRY AND PHYSICS, National Scientific Refreed Journal, March 2019
JOURNAL OF APPLIED BIOMATERIALS & FUNCTIONAL MATERIALS, SCI Journal, February 2019
CURRENT PHARMACEUTICAL BIOTECHNOLOGY, National Scientific Refreed Journal, February 2019
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, February 2019
SURFACE REVIEW AND LETTERS, SCI Journal, January 2019
JOURNAL OF BIOMATERIALS APPLICATIONS, SCI Journal, January 2019
JOURNAL OF RAMAN SPECTROSCOPY, SCI Journal, January 2019
international research journal of medicine and medical sciences, Other Indexed Journal, January 2019
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, SCI Journal, December 2018
CERAMICS INTERNATIONAL, SCI Journal, December 2018
CURRENT PHARMACEUTICAL BIOTECHNOLOGY, SCI Journal, November 2018
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, SCI Journal, October 2018
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, October 2018
CURRENT PHARMACEUTICAL BIOTECHNOLOGY, SCI Journal, October 2018
MATERIALS LETTERS, SCI Journal, September 2018
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, September 2018
PROCESSING AND APPLICATION OF CERAMICS, SCI Journal, September 2018
CURRENT PHARMACEUTICAL BIOTECHNOLOGY, SCI Journal, August 2018
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, July 2018
MATERIALS RESEARCH EXPRESS, SCI Journal, July 2018
JOURNAL OF ADVANCED CERAMICS, SCI Journal, July 2018
MATERIALS RESEARCH BULLETIN, SCI Journal, July 2018
MATERIALS CHEMISTRY AND PHYSICS, National Scientific Refreed Journal, July 2018
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, June 2018
CERAMICS INTERNATIONAL, SCI Journal, May 2018
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, May 2018

MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, May 2018
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, April 2018
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, SCI Journal, March 2018
BIOMEDICAL PHYSICS & ENGINEERING EXPRESS, SCI Journal, March 2018
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, March 2018
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, March 2018
BIOMEDICAL PHYSICS & ENGINEERING EXPRESS, SCI Journal, February 2018
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, January 2018

Metrics

Publication: 172
Citation (WoS): 3139
Citation (Scopus): 3555
H-Index (WoS): 31
H-Index (Scopus): 32

Congress and Symposium Activities

1st International Conference on Advances in Mechanical and Mechatronics Engineering, Invited Speaker, Ankara, Turkey, 2018

Non Academic Experience

TÜRKİYE BİLİMLER AKADEMİSİ (TÜBA), ASOSİYE ÜYE
Company, TUSAŞ, Üretim Mühendisliği Direktörlüğü, Direktör
Company, TUSAŞ, arge, Danışman
TÜBİTAK, Araştırma Destek Programları Başkanı
METU, Assistant Professor
METU, Instructor/Reader