

## 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

## Advising Theses

Keskin D., Evis Z., Ba doped baghdadite, PHBV/PCL, Composite scaffolds, Bone tissue engineering, Postgraduate, S.Sadreddini(Student), 2023

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

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

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

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 nitrid 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., AYDINOL M. K., Development and characterization of high power density cathode materials for lithium-ion batteries, Doctorate, Ş.DOĞU(Student), 2015

EVİS Z., Surface morphology investigation of a biodegradable magnesium alloy, Doctorate, A.TAHMASEBİFAR(Student), 2015

EVİS Z., Strontium doped calcium phosphate biomimetic coatings on Ti6Al4V plates, Postgraduate, M.AVCI(Student), 2015

EVİS Z., Manufacturing, mechanical and microstructural characterization of AZ91D magnesium alloy for biomedical applications, Postgraduate, S.MURAT(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., 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., An experimental study of mechanical properties of non enzymatically glycated bovine femur cortical bone, Doctorate, G.FINDIKOĞLU(Student), 2012

EVİS Z., Nano calcium phosphates doped with titanium and fluoride ions: Sinterability and stability of phases, Doctorate, S.GÜNGÖR(Student), 2012

EVİS Z., The synthesis of zinc, chloride and fluoride doped nano hydroxylapatites 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

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

EVİS Z., Prediction of hexagonal lattice parameters of stoichiometric and non-stoichiometric apatites by artificial neural networks, Postgraduate, Ü.KOÇKAN(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. **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)
- II. **Structural comparison of conventional and chiral auxetic morphed aircraft rib**  
Inan C. Y., EVİS Z., Ozturk B.  
Materialpruefung/Materials Testing, vol.66, no.1, pp.56-65, 2024 (SCI-Expanded)
- III. **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.  
Materialpruefung/Materials Testing, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Additive manufacturing of hexagonal lattice structures: Tensile tests and validation**  
Ture M. O., EVİS Z., ÖZTÜRK F.  
Materialpruefung/Materials Testing, vol.65, no.4, pp.505-511, 2023 (SCI-Expanded)
- XI. **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)

- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Radiosensitization induced by zinc-doped hydroxyapatite nanoparticles in breast cancer cells**  
Yedekçi F. Y., Gedik E., Evis Z., Dogan L., Özyiğit G., Gurkaynak M.  
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.18, no.3, pp.563-572, 2021 (SCI-Expanded)
- XXX. **Multifunctional natural polymer-based metallic implant surface modifications**  
Pazarçeviren A. E., Tezcaner A., Evis Z.  
BIOINTERPHASES, vol.16, no.2, 2021 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **In vitro performance of a nanobiocomposite scaffold containing boron-modified bioactive glass nanoparticles for dentin regeneration**

- Rad R. M., Pazarceviren E., Akguen E. E., Evis Z., Keskin D., Sahin S., Tezcaner A.  
JOURNAL OF BIOMATERIALS APPLICATIONS, vol.33, pp.834-853, 2019 (SCI-Expanded)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **Physico-chemical and biological properties of hydroxyapatite extracted from chicken beaks**  
ALSHEMARY A. Z. G., AKRAM M., TAHA A., TEZCANER A., EVİS Z., HUSSAİN R.  
MATERIALS LETTERS, vol.215, pp.169-172, 2018 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **Fe<sup>3+</sup>/SeO<sub>4</sub><sup>2-</sup> 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)
- LI. **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)
- LII. **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)
- LIII. **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)
- LIV. **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)

- LV. 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)
- LVI. Application of Electric Resistance Heating Method on Titanium Hot Forming at Industrial Scale**  
 Ozturk F., Ece R. E., Polat N., Koksal A., EVİS Z., Sheikh-Ahmad J. Y.  
 ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.41, no.11, pp.4441-4448, 2016 (SCI-Expanded)
- LVII. 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)
- LVIII. 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)
- LIX. 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)
- LX. Surface Characterization and Biocompatibility of SeleniumDoped Hydroxyapatite Coating on Titanium Alloy**  
 YILMAZ B., TEZCANER A., EVİS Z., BANERJEE S.  
 Ceramics International, 2016 (SCI-Expanded)
- LXI. 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)
- LXII. 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)
- LXIII. 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)
- LXIV. Co-doping of hydroxyapatite with zinc and fluoride improves mechanical and biological properties of hydroxyapatite**  
 Uysal I., Severcan F., TEZCANER A., EVİS Z.  
 PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL, vol.24, no.4, pp.340-349, 2014 (SCI-Expanded)
- LXV. Raman Spectroscopy Investigation of Nano Hydroxyapatite Doped with Yttrium and Fluoride Ions**  
 Yilmaz B., EVİS Z.  
 SPECTROSCOPY LETTERS, vol.47, no.1, pp.24-29, 2014 (SCI-Expanded)
- LXVI. ARTIFICIAL-NEURAL-NETWORK PREDICTION OF HEXAGONAL LATTICE PARAMETERS FOR NON-STOICHIOMETRIC APATITES**  
 Kockan U., Ozturk F., EVİS Z.  
 MATERIALI IN TEHNOLOGIJE, vol.48, no.1, pp.73-79, 2014 (SCI-Expanded)
- LXVII. Silver and fluoride doped hydroxyapatites: Investigation by microstructure, mechanical and antibacterial properties**  
 Turkoz M., Atilla A. O., EVİS Z.  
 CERAMICS INTERNATIONAL, vol.39, no.8, pp.8925-8931, 2013 (SCI-Expanded)
- LXVIII. Characterization by Fourier transform infrared spectroscopy of hydroxyapatite co-doped with zinc**

**and fluoride**

Uysal I., Severcan F., EVİS Z.

CERAMICS INTERNATIONAL, vol.39, no.7, pp.7727-7733, 2013 (SCI-Expanded)

- LXIX. **Effect of YF3 on the phase stability and sinterability of hydroxyapatite-Partially stabilized zirconia composites**  
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## Supported Projects

Pazarçeviren A. E., Tezcaner A., Evis Z., Keskin D., Altunbaş K., Yaprakçı M. V., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Bor Katkılı Hidroksiapatit ve Trikalsiyum Fosfatın Aljinat ile Beraber Titanyum Alaşımı Üzerine Kaplanması: Mikroyapı, Mekanik, İn vitro ve İn vivo Özelliklerinin İncelenmesi, 2018 - 2022

EVİS Z., JODATİ H., Project Supported by Higher Education Institutions, DIŞ HEKİMLİĞİ KULLANIMINA UYGUN TOZSUZ VE UZATILMIŞ MODEL ELDE ETME SÜRESİNE SAHİP IRREVERSİBLE HİDROKOLLOID ÖLÇÜ MALZEMESİ ÜRETİMİ, 2018 - 2019

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Evis Z., Şahin V., TUBITAK Project, Diş hekimliği kullanımına uygun tozsuz ve uzatılmış model elde etme süresine sahip irreversible hidrokolloid ölçü malzemesi üretimi, 2015 - 2018

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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

BOR DERGİSİ, First Editor, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

TÜBA, Associate Member, 2015 - Continues

## Scientific Refereeing

MICROSCOPY RESEARCH AND TECHNIQUE, Journal Indexed in SCI-E, December 2022  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, December 2022  
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, December 2022  
HELIYON, National Scientific Refreed Journal, December 2022  
ADVANCED MATERIALS INTERFACES, Journal Indexed in SCI-E, December 2022  
MATERIALS SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, December 2022  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, December 2022  
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  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, SCI Journal, May 2022  
Surfaces and Interfaces, SCI Journal, April 2022  
HELIYON, SCI Journal, April 2022  
Journal of Magnesium and Alloys, SCI Journal, April 2022  
MATERIALS SCIENCE AND ENGINEERING C, SCI Journal, January 2022  
MATERIALS TODAY COMMUNICATIONS, SCI Journal, January 2022  
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Journal of Magnesium and Alloys, SCI Journal, April 2021  
MICROSCOPY RESEARCH AND TECHNIQUE, SCI Journal, April 2021  
CERAMICS INTERNATIONAL, SCI Journal, March 2021  
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, February 2021  
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COMPOSITES PART B: ENGINEERING, SCI Journal, February 2021  
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  
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mrs advances, Other journals, September 2020  
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JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, SCI Journal, November 2019  
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CHEMISTRY SELECT, Other journals, November 2019  
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PROGRESS IN NATURAL SCIENCE, SCI Journal, October 2019  
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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  
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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  
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MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, March 2018  
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BIOMEDICAL PHYSICS & ENGINEERING EXPRESS, SCI Journal, February 2018  
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, January 2018

## Metrics

Publication: 167

Citation (WoS): 1957

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H-Index (WoS): 25

H-Index (Scopus): 30

## **Congress and Symposium Activities**

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

## **Non Academic Experience**

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TÜRKİYE BİLİMLER AKADEMİSİ (TÜBA)

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