

## **Prof. ZAFER EVİS**

### **Personal Information**

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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**

Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2013 - Continues

### **Advising Theses**

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- $\beta$ -tricalcium phosphate composites doped with strontium and fluoride, Postgraduate, E.Pourreza(Student), 2016

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., 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

AYDINOL M. K. , EVİS Z., 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

BANERJEE S., EVİS Z., 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 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

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

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

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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Properties and applications of boron nitride nanotubes**  
Turhan E. A. , PAZARÇEVİREN A. E. , EVİS Z., TEZCANER A.  
NANOTECHNOLOGY, vol.33, no.24, 2022 (Journal Indexed in SCI)
- II. **A Review on Nanocomposites with Graphene Based Fillers in Poly(ether ether ketone)**  
Oz Y., Yilmaz B., EVİS Z.  
POLYMER SCIENCE SERIES A, 2022 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)

- V. **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, 2022 (Journal Indexed in SCI Expanded)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **Multifunctional natural polymer-based metallic implant surface modifications**  
Pazarçeviren A. E. , Tezcaner A., Evis Z.  
BIOINTERPHASES, vol.16, no.2, 2021 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)

- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **Co-doped hydroxyapatites as potential materials for biomedical applications**  
YILMAZ B., ALSHEMERY A. Z. G. , EVİS Z.  
MICROCHEMICAL JOURNAL, vol.144, pp.443-453, 2019 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **Silicate-doped nano-hydroxyapatite/graphene oxide composite reinforced fibrous scaffolds for bone tissue engineering**  
DALGIÇ A. D. , ALSHEMERY A. Z. G. , TEZCANER A., KESKİN D., EVİS Z.  
JOURNAL OF BIOMATERIALS APPLICATIONS, vol.32, no.10, pp.1392-1405, 2018 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **Physico-chemical and biological properties of hydroxyapatite extracted from chicken beaks**  
ALSHEMERY A. Z. G. , AKRAM M., TAHA A., TEZCANER A., EVİS Z., HUSSAİN R.  
MATERIALS LETTERS, vol.215, pp.169-172, 2018 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **Fe<sup>3+</sup>/SeO<sub>4</sub><sup>2-</sup> dual doped nano hydroxyapatite: A novel material for biomedical applications**  
ALSHEMERY 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 (Journal Indexed in SCI)
- XXXII. **Impact of B<sub>2</sub>O<sub>3</sub> and La<sub>2</sub>O<sub>3</sub> addition on structural, mechanical and biological properties of hydroxyapatite**  
KHOSHŞİMA S., ALSHEMERY A. Z. G. , TEZCANER A., SURDEM S., EVİS Z.  
PROCESSING AND APPLICATION OF CERAMICS, vol.12, no.2, pp.143-152, 2018 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **Surface Characterization and Biocompatibility of SeleniumDoped Hydroxyapatite Coating on Titanium Alloy**  
YILMAZ B., TEZCANER A., EVİS Z., BANERJEE S.  
Ceramics International, 2016 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)
- XLIV. **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 (Journal Indexed in SCI)
- XLV. **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 (Journal Indexed in SCI)
- XLVI. **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 (Journal Indexed in SCI)

- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **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 (Journal Indexed in SCI)
- XLIX. **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 (Journal Indexed in SCI)
- L. **Effect of YF3 on the phase stability and sinterability of hydroxyapatite-Partially stabilized zirconia composites**  
Aykul A., KUTBAY I., EVİS Z., USTA M.  
CERAMICS INTERNATIONAL, vol.39, no.7, pp.7869-7877, 2013 (Journal Indexed in SCI)
- LI. **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 (Journal Indexed in SCI)
- LII. **Mechanical and microstructural evaluations of hot formed titanium sheets by electrical resistance heating process**  
Ozturk F., Ece R. E. , Polat N., Koksal A., EVİS Z., Polat A.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.578, pp.207-214, 2013 (Journal Indexed in SCI)
- LIII. **Structural and mechanical characteristics of hydroxyapatite and tri-calcium phosphates doped with Al<sup>3+</sup> and F<sup>-</sup> ions**  
Tahmasebifar A., EVİS Z.  
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.14, no.4, pp.549-556, 2013 (Journal Indexed in SCI)
- LIV. **Structural and mechanical characteristics of nanohydroxyapatite doped with zinc and chloride**  
Uysal I., Severcan F., EVİS Z.  
ADVANCES IN APPLIED CERAMICS, vol.112, no.3, pp.149-157, 2013 (Journal Indexed in SCI)
- LV. **X-ray investigation of sintered cadmium doped hydroxyapatites**  
EVİS Z., Yilmaz B., USTA M., AKTUĞ S. L.  
CERAMICS INTERNATIONAL, vol.39, no.3, pp.2359-2363, 2013 (Journal Indexed in SCI)
- LVI. **Nanosize hydroxyapatite: doping with various ions**  
EVİS Z., Webster T. J.  
ADVANCES IN APPLIED CERAMICS, vol.110, no.5, pp.311-320, 2011 (Journal Indexed in SCI)
- LVII. **Synthesis, phase transitions and cellular biocompatibility of nanophase alumina-hydroxyapatite composites**  
BAŞAR B., TEZCANER A., KESKİN D., EVİS Z.  
ADVANCES IN APPLIED CERAMICS, vol.110, no.4, pp.238-243, 2011 (Journal Indexed in SCI)
- LVIII. **Artificial neural network investigation of hardness and fracture toughness of hydroxylapatite**  
EVİS Z., Arcaklioglu E.  
CERAMICS INTERNATIONAL, vol.37, no.4, pp.1147-1152, 2011 (Journal Indexed in SCI)
- LIX. **Synthesis and microstructural characterization of nano-size calcium phosphates with different stoichiometry**  
Ergun C., EVİS Z., Webster T. J. , Sahin F. C.  
CERAMICS INTERNATIONAL, vol.37, no.3, pp.971-977, 2011 (Journal Indexed in SCI)

- LX. **Microstructure, microhardness, and biocompatibility characteristics of yttrium hydroxyapatite doped with fluoride**  
 Toker S. M. , TEZCANER A., EVİS Z.  
 JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.2, pp.207-217, 2011  
 (Journal Indexed in SCI)
- LXI. **Structural and mechanical investigations of magnesium and fluoride doped nanosize calcium phosphates**  
 EVİS Z., Sun Z. P.  
 JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.11, no.6, pp.701-715, 2010 (Journal Indexed in SCI)
- LXII. **Diametral strength testing of hydroxyapatites doped with yttrium and fluoride**  
 EVİS Z., Basar B., Sun Z. P.  
 ADVANCES IN APPLIED CERAMICS, vol.109, no.7, pp.383-388, 2010 (Journal Indexed in SCI)
- LXIII. **Microstructural, mechanical, and osteocompatibility properties of Mg<sup>2+</sup>/F--doped nanophase hydroxyapatite**  
 Sun Z. P. , Ercan B., EVİS Z., Webster T. J.  
 JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, no.3, pp.806-815, 2010 (Journal Indexed in SCI)
- LXIV. **Prediction of hexagonal lattice parameters of various apatites by artificial neural networks**  
 Kockan U., EVİS Z.  
 JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol.43, pp.769-779, 2010 (Journal Indexed in SCI)
- LXV. **Improvements in microstructural, mechanical, and biocompatibility properties of nano-sized hydroxyapatites doped with yttrium and fluoride**  
 BAŞAR B., TEZCANER A., KESKİN D., EVİS Z.  
 CERAMICS INTERNATIONAL, vol.36, no.5, pp.1633-1643, 2010 (Journal Indexed in SCI)
- LXVI. **Microstructural investigation of Cu<sup>2+</sup> doped nanohydroxyapatites**  
 EVİS Z.  
 MATERIALS SCIENCE AND TECHNOLOGY, vol.26, no.5, pp.630-632, 2010 (Journal Indexed in SCI)
- LXVII. **Structural investigation of nanohydroxyapatite doped with Y<sup>3+</sup> and F- ions**  
 Basar B., EVİS Z.  
 MATERIALS SCIENCE AND TECHNOLOGY, vol.25, no.6, pp.794-798, 2009 (Journal Indexed in SCI)
- LXVIII. **Improvement in sinterability and phase stability of hydroxyapatite and partially stabilized zirconia composites**  
 EVİS Z., USTA M., KUTBAY I.  
 JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.29, no.4, pp.621-628, 2009 (Journal Indexed in SCI)
- LXIX. **Effect of AlF<sub>3</sub>, CaF<sub>2</sub> and MgF<sub>2</sub> on hot-pressed hydroxyapatite-nanophase alpha-alumina composites**  
 EVİS Z., Doremus R. H.  
 MATERIALS RESEARCH BULLETIN, vol.43, no.10, pp.2643-2651, 2008 (Journal Indexed in SCI)
- LXX. **Hydroxyapatite and zirconia composites: Effect of MgO and MgF<sub>2</sub> on the stability of phases and sinterability**  
 EVİS Z., USTA M., KUTBAY I.  
 MATERIALS CHEMISTRY AND PHYSICS, vol.110, no.1, pp.68-75, 2008 (Journal Indexed in SCI)
- LXXI. **Investigation of tensile strength of hydroxyapatite with various porosities by diametral strength test**  
 EVİS Z., Ozturk F.  
 MATERIALS SCIENCE AND TECHNOLOGY, vol.24, no.4, pp.474-478, 2008 (Journal Indexed in SCI)
- LXXII. **Analysis of tempering treatment on material properties of DIN 41Cr4 and DIN 42CrMo4 steels**  
 Bayrak M., Ozturk F., Demirezen M., Evis Z.  
 JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.16, no.5, pp.597-600, 2007 (Journal Indexed in SCI)
- LXXIII. **Effect of YF<sub>3</sub> on hot-pressed hydroxyapatite and monoclinic zirconia composites**  
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- VI. **Mechanical properties of polymer/bioceramics based 3D porous scaffolds in hard tissue engineering**  
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- VII. **Graphene oxide / brushite cement: promising composites for load bearing bone substitutes**  
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## **Supported Projects**

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EVİS Z., YEDEKÇİ B., Project Supported by Higher Education Institutions, KEMİK DOKU MÜHENDİSLİĞİ İÇİN PCL-PEG-PCL/ STRONSIYUM VE MAGNEZYUM İYONLARI İLAVE EDİLMİŞ BOR KATKILI HİDROKSİAPATİT İLE 3 BOYUTLU GÖZENEKLİ KOMPOZİT İSKELE ÜRETİMİ, 2018 - 2019

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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### **Activities in Scientific Journals**

Bor Dergisi, First Editor, 2020 - Continues  
Bor Dergisi, Publication Committee Member, 2016 - Continues

### **Memberships / Tasks in Scientific Organizations**

TÜBA, Associate Member, 2015 - Continues

### **Scientific Refereeing**

Journal of Architectural Design and construction Technology, Other journals, December 2020  
JOURNAL OF BIONIC ENGINEERING, National Scientific Refreed Journal, December 2020

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## **Edit Congress and Symposium Activities**

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## **Citations**

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