

Prof. Dr. ZAFER EVİS

Kişisel Bilgiler

İş Telefonu: [+90 312 210 4450](tel:+903122104450)

E-posta: evis@metu.edu.tr

Web: <https://avesis.metu.edu.tr/evis>

Uluslararası Araştırmacı ID'leri

ScholarID: BVKNy9kAAAAJ

ORCID: 0000-0002-7518-8162

Publons / Web Of Science ResearcherID: AAZ-7561-2020

ScopusID: 14070067300

Yoksis Araştırmacı ID: 164813

Eğitim Bilgileri

Doktora, Rensselaer Polytechnic Institute, Mühendislik Bilimi, Amerika Birleşik Devletleri 2000 - 2003

Yüksek Lisans, Rensselaer Polytechnic Institute, Malzeme Muh, Amerika Birleşik Devletleri 1998 - 1999

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, Türkiye 1991 - 1996

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

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

Yüksek Lisans, biyoseramikler, Rensselaer Polytechnic Institute, Malzeme Muh, 1999

Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Biyomalzemeler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, 2015 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, 2010 - 2015

Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, 2013 - Devam Ediyor

Yönetilen Tezler

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Jüri Üyelikleri

Akademik Personel Sınavı, Akademik Personel Sınavı, Istanbul Technical University, Şubat, 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Experimental and numerical investigation of mechanical properties of PLA-based auxetic structures**
Taşdemir M., TOKTAŞ İ., MOTAMENİ A., EVİS Z.
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- II. **Effect of mandrel position on bending quality in the rotary draw bending process**
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- III. **A comparative review of machinability in AA2XXX and AA7XXX heat-treatable aluminum alloys: Focus on AA7050-T7451 and AA2050-T84**
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- IV. **Mechanical and biological evaluation of β -dicalcium silicate/dicalcium phosphate-based cements: promising materials for biomedical applications**
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- V. **Influence of strut angle and radius on the energy absorption and failure mechanisms in 3-strut, 4-strut and 6-strut lattice structures**
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- VIII. **A review, zirconia based dental materials**
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- IX. **Fibroin reinforced, strontium-doped calcium phosphate silicate cements for bone tissue engineering applications**
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- X. **Novel barium-doped-baghdadite incorporated PHBV-PCL composite fibrous scaffolds for bone tissue engineering**
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- XI. **Machining parameters and distortion analyses in end milling of AA2050 and AA7050**
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- 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.
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- XIII. **Boron nitride nanofiber/Zn-doped hydroxyapatite/polycaprolactone scaffolds for bone tissue engineering applications**
Turhan E. A., Akbaba S., TEZCANER A., EVİS Z.
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- XIV. **3D porous bioceramic based boron-doped hydroxyapatite/baghdadite composite scaffolds for bone tissue engineering**
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- XV. **Additive manufacturing of hexagonal lattice structures: Tensile tests and validation**
Ture M. O., EVİS Z., ÖZTÜRK F.
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- XVI. **Synthesis of baghdadite using modified sol-gel route and investigation of its properties for bone treatment applications**
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- 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**
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- XIX. **Nickel titanium alloys as orthodontic archwires: A narrative review**
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- XX. **Graphene oxide reinforced doped dicalcium phosphate bone cements for bone tissue regenerations**
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- XXI. **Optimization of spur gear pairs for aerospace applications**
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- XXII. **Bactericidal and in vitro osteogenic activity of nano sized cobalt-doped silicate hydroxyapatite**
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- XXIII. **Effects of the doping concentration of boron on physicochemical, mechanical, and biological properties of hydroxyapatite**
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- XXIV. **Versatile-in-All-Trades: Multifunctional Boron-Doped Calcium-Deficient Hydroxyapatite Directs Immunomodulation and Regeneration**
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- XXV. **A Review on Nanocomposites with Graphene Based Fillers in Poly(ether ether ketone)**

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- XXVI. **Properties and applications of boron nitride nanotubes**
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- XXVII. **Seamless and robust alginate/gelatin coating on Ti-6Al-4V as a gap filling interphase**
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- XXIX. **In vitro and in vivo properties of graphene-incorporated scaffolds for bone defect repair**
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- XXX. **Effects of biomimetic synthesis route and sintering temperature on physicochemical, microstructural, and mechanical properties of hydroxyapatite**
Kaya Y., Jodati H., Evis Z.
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- XXXI. **Zn-doped hydroxyapatite in biomedical applications**
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- XXXII. **Biomechanical Evaluation of an Injectable Alginate / Dicalcium Phosphate Cement Composites for Bone Tissue Engineering**
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- XXXIII. **A review of synthesis methods, properties and use of monetite cements as filler for bone defects**
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- XXXIV. **Radiosensitization induced by zinc-doped hydroxyapatite nanoparticles in breast cancer cells**
Yedekçi F. Y., Gedik E., Evis Z., Dogan L., Özyiğit G., Gurkaynak M.
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- 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, cilt.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.
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- 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.
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- XXXVIII. **Synthesis and sintering of B, Sr, Mg multi-doped hydroxyapatites: Structural, mechanical and biological characterization**
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- XXXIX. **Multifunctional natural polymer-based metallic implant surface modifications**
Pazarçeviren A. E., Tezcaner A., Evis Z.
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- XL. **Effects of surface pretreatments and coating period on hydroxyapatite coating of Ti6Al4V alloy**
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- XLII. **Historical development of simulated body fluids used in biomedical applications: A review**
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- XLIII. **Synthesis and characterization of magnesium-lanthanum dual doped bioactive glasses**
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- XLIII. **Porous clinoptilolite-nano biphasic calcium phosphate scaffolds loaded with human dental pulp stem cells for load bearing orthopedic applications**
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- XLIV. **Resorbable PCEC/gelatin-bismuth doped bioglass-graphene oxide bilayer membranes for guided bone regeneration**
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- XLV. **In vitro performance of a nanobiocomposite scaffold containing boron-modified bioactive glass nanoparticles for dentin regeneration**
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- XLVI. **Co-doped hydroxyapatites as potential materials for biomedical applications**
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- 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.
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- XLVIII. **Structural and biological assessment of boron doped bioactive glass nanoparticles for dental tissue applications**
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- XLIX. **Silicate-doped nano-hydroxyapatite/graphene oxide composite reinforced fibrous scaffolds for bone tissue engineering**
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- L. **Side-Effects of Convulsive Seizures and Anti-Seizure Therapy on Bone in a Rat Model of Epilepsy**
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- LI. **Physico-chemical and biological properties of hydroxyapatite extracted from chicken beaks**
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- LII. **Review of magnesium-based biomaterials and their applications**
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- LIII. **Investigation of bismuth doped bioglass/graphene oxide nanocomposites for bone tissue engineering**
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- LIV. **Fe³⁺/SeO₄²⁻ dual doped nano hydroxyapatite: A novel material for biomedical applications**
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- LV. Impact of B2O3 and La2O3 addition on structural, mechanical and biological properties of hydroxyapatite**
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- LVI. Strontium doped hydroxyapatite biomimetic coatings on Ti6Al4V plates**
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- LVIII. Early Alterations in Bone Characteristics of Type I Diabetic Rat Femur: A Fourier Transform Infrared (FT-IR) Imaging Study**
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- LIX. Structural, mechanical and biological properties of hydroxyapatite-zirconia-lanthanum oxide composites**
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- LX. Application of Electric Resistance Heating Method on Titanium Hot Forming at Industrial Scale**
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- LXI. Surface Characterization and Biocompatibility of Selenium-Doped Hydroxyapatite Coating on Titanium Alloy**
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- LXIII. Experimental and numerical investigations for mechanical and microstructural characterization of micro-manufactured AZ91D magnesium alloy disks for biomedical applications**
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Akademi Dışı Deneyim

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