

Office Phone: [+90 312 210 4452](tel:+903122104452)

Email: tezcaner@metu.edu.tr

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

International Researcher IDs

ScholarID: AlOmGFsAAAAJ

ORCID: 0000-0003-4292-5856

Publons / Web Of Science ResearcherID: AAZ-5553-2020

ScopusID: 6507383575

Yoksis Researcher ID: 163461

Education Information

- I. Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biotechnology, Turkey 1994 - 2001
- II. Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biotechnology, Turkey 1991 - 1994
- III. Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1987 - 1991

Research Areas

Biomedical Engineering, Life Sciences, Biotechnology, Biomaterial, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

- I. Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2017 - Continues
- II. Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2010 - 2017
- III. Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2004 - 2010
- IV. Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2002 - 2003
- V. Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1993 - 2001

Academic and Administrative Experience

- I. Erasmus Coordinator, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2014 - Continues

Supervised Theses

- I. Tezcaner A., Keskin D., Development of hypoxia-inducible factor-1 alpha and ghrelin-loaded core/shell fibrous scaffolds for improving vascularization and osteogenesis, Postgraduate, E.KÜÇÜK(Student), 2024
- II. Tezcaner A., Keskin D., Melatonin loaded chitosan based hydrogels for cartilage regeneration, Postgraduate, B.NUR(Student), 2024
- III. Tezcaner A., Evis Z., Boron reinforced fibroin membrane for periosteal tissue engineering, Doctorate, S.AKBABA(Student), 2024
- IV. Tezcaner A., Hasırcı N., Designing dental pulp tissue engineering product, Postgraduate, T.SELENAY(Student), 2023
- V. Tezcaner A., Özen C., Storax containing hydroxyethyl chitosan-carrageenan hydrogel / asymmetric polycaprolactone membrane bilayer wound dressing, Doctorate, M.NAKİPOĞLU(Student), 2023
- VI. Tezcaner A., Öktem H. A., Evaluation of performance of arsenic bioreporter immobilized electrospun membranes for arsenic detection in water, Doctorate, N.ARIK(Student), 2022
- VII. Tezcaner A., Evis Z., Synthesis and functionalization of graphene oxide nanocomposites for anticancer drug delivery, Postgraduate, H.KAMAL(Student), 2022
- VIII. Tezcaner A., Evis Z., Composite boron doped hydroxyapatite-tricalcium phosphate/alginate/gelatin hydrogel coating on titanium implants: Osseointegration and immunomodulation study, Doctorate, A.ENĞİN(Student), 2022
- IX. Ermiş Şen M., Tezcaner A., Development of a Multilayered Skin Model Using 3D Printing and Microfluidic Systems, Postgraduate, F.CAN(Student), 2021
- X. Tezcaner A., Hasırcı N., DEVELOPMENT OF 3D PRINTED PECTIN AND GELATIN BASED BIOACTIVE SKIN GRAFTS, Postgraduate, N.SERAY(Student), 2021
- XI. Tezcaner A., Evis Z., Boron nitride/zinc doped hydroxyapatite/polycaprolactone composite scaffolds for bone tissue engineering, Postgraduate, E.AYŞE(Student), 2021
- XII. Tezcaner A., Erdemli Ö., Xanthan-gelatin and xanthan-gelatin-keratin wound dressings for local delivery of vitamin C, Postgraduate, G.ÇİĞDEM(Student), 2021
- XIII. Tezcaner A., Hasırcı V. N., Bioactive agent loaded hydrogel systems for dental tissue engineering applications, Doctorate, D.HAZAL(Student), 2021
- XIV. Tezcaner A., Evis Z., 3D POROUS COMPOSITE SCAFFOLD OF PCL-PEG-PCL/Sr²⁺ AND Mg²⁺ IONS CO-DOPED BORATE HYDROXYAPATITE FOR BONE TISSUE ENGINEERING, Doctorate, B.YEDEKÇİ(Student), 2021
- XV. TEZCANER A., Biopolymer modified polypropylene mesh for hernia treatment, Postgraduate, S.AKBABA(Student), 2018
- XVI. TEZCANER A., Growth factor loaded silk fibroin/pegdma hydrogels for articular cartilage tissue engineering, Postgraduate, M.FATHI(Student), 2018
- XVII. TEZCANER A., Borate modified bioglass containing scaffolds for dental tissue engineering applications, Doctorate, R.MOONESI(Student), 2018
- XVIII. TEZCANER A., KESKİN D., Development of clinoptilolite/poly ε-caprolactone -polyethylene glycol - poly ε-caprolactone triblock copolymer based scaffolds for bone tissue engineering, Postgraduate, A.ENĞİN(Student), 2016
- XIX. TEZCANER A., Development of microcarrier systems for bone tissue engineering, Postgraduate, H.AYDOĞDU(Student), 2015
- XX. TEZCANER A., Development of vascularized adipose tissue construct based on adipose tissue extracellular matrix and silk fibroin, Postgraduate, A.KAYABÖLEN(Student), 2015
- XXI. TEZCANER A., KESKİN D., Raloxifene delivery systems for osteoporosis treatment, Doctorate, A.KAVAS(Student), 2014
- XXII. TEZCANER A., Cellulose-based electrospun scaffolds for tissue engineering applications, Postgraduate, D.HAZAL(Student), 2014
- XXIII. TEZCANER A., KESKİN D., Development of a new targeted liposomal delivery system of doxorubicin modified with lymphoma cell specific antibody, Postgraduate, A.DENİZ(Student), 2014
- XXIV. TEZCANER A., DURUCAN C., Simvastatin loaded porous hydroxyapatite based microcarriers for bone tissue engineering /, Postgraduate, M.GÜLDİKEN(Student), 2014

- XXV. TEZCANER A., AKDAĞ A., Development and characterization of silk fibroin and citrus pectin based scaffolds for bone tissue engineering, Postgraduate, S.ATAOL(Student), 2014
- XXVI. TEZCANER A., Development of novel controlled release formulations of anti-TNF for rheumatoid arthritis and modeling of release behaviors, Doctorate, Ö.ERDEMLİ(Student), 2013
- XXVII. TEZCANER A., Characterization of liposomal Celecoxib formulation as a drug delivery system in colorectal cancer cell lines, Doctorate, A.ERDOĞ(Student), 2012
- XXVIII. TEZCANER A., Bone marrow targeted liposomal drug delivery systems, Postgraduate, M.BAKI(Student), 2011
- XXIX. TEZCANER A., KESKİN D., In situ, in vitro and in vivo evaluation of effectiveness of new treatment approaches involving controlled drug delivery systems in cartilage degenerations, Doctorate, Ö.AYDIN(Student), 2011
- XXX. TEZCANER A., KESKİN D., Preparation of sericin based wound dressing and investigation of its biomaterial properties, Postgraduate, Ö.AKTÜRK(Student), 2009
- XXXI. TEZCANER A., EVİS Z., Structural, mechanical, and biocompatibility investigations of yttrium and fluoride doped nano hydroxyapatite, Postgraduate, B.BAŞAR(Student), 2009
- XXXII. TEZCANER A., The effect of mechanical forces on adipogenic differentiation, Postgraduate, P.SHARAFI(Student), 2008
- XXXIII. TEZCANER A., KESKİN D., Evaluation of effectiveness of different bioactive agents for treatment of osteoarthritis with in vitro model under dynamic mechanical stimulation, Postgraduate, A.KAVAS(Student), 2007
- XXXIV. TEZCANER A., KESKİN D., Biocompatibility and biomechanical properties of new polycaprolactone-bioglass based bone implant materials, Postgraduate, Ö.ERDEMLİ(Student), 2007
- XXXV. TEZCANER A., HASIRCI V. N., Development of a genetic material transfer approach for gene therapy, Postgraduate, Ş.AYAZ(Student), 2005
- XXXVI. TEZCANER A., HASIRCI V. N., Cornea engineering on biodegradable polyesters, Postgraduate, P.ZORLUTUNA(Student), 2005

Jury Memberships

- I. Award, MUSTAFA PARLAK ARAŞTIRMA TEŞVİK ÖDÜLÜ, Orta Doğu Teknik Üniversitesi, December, 2022
- II. Award, ODTÜ MUSTAFA PARLAR ARAŞTIRMA TEŞVİK ÖDÜLÜ, Orta Doğu Teknik Üniversitesi, December, 2022
- III. Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İzmir Yüksek Teknoloji Enstitüsü, November, 2022
- IV. Award, ODTÜ PROF. DR. MUSTAFA N. PARLAR EĞİTİM VE ARAŞTIRMA VAKFI, Orta Doğu Teknik Üniversitesi, November, 2021
- V. Award, TUBA GEBİP, Orta Doğu Teknik Üniversitesi, June, 2021
- VI. Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Başkent Üniversitesi, October, 2020
- VII. Doctoral Examination, Mühendislik Bilimleri Doktora Yeterlik Komitesi, ODTÜ, December, 2018
- VIII. Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurulu, December, 2018
- IX. Appointment to Academic Staff-Assistant Professorship, Profesörlük dosyası değerlendirme, Hacettepe Üniversitesi, December, 2018
- X. Associate Professor Exam, Doçentlik sınav jürisi, Üniversitelerarası Kurulu, December, 2018
- XI. Award, Mustafa Parlar Ödül başvuru dosyası değerlendirme, ODTÜ PROF. DR. MUSTAFA N. PARLAR EĞİTİM VE ARAŞTIRMA VAKFI, December, 2018
- XII. Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurulu, December, 2018
- XIII. Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, September, 2018
- XIV. Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, September, 2018
- XV. Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, September, 2018
- XVI. Associate Professor Exam, Doçentlik, Üniversitelerarası Kurul, September, 2018

- I. **Self-composite silk fibroin membranes for guided bone regeneration: 1 material 3 architectures with intrinsic integrity**
Atila D., GÜRSES S., TEZCANER A.
Materials Today Communications, vol.39, 2024 (SCI-Expanded)
- II. **Local application of gingiva-derived mesenchymal stem cells on experimental periodontitis in rats**
Balaban Y. E., Akbaba S., Bozkurt S. B., BÜYÜKSUNGUR A., Akgun E. E., GÖNEN Z. B., Salkin H., TEZCANER A., Hakki S. S.
Journal of Periodontology, vol.95, no.5, pp.456-468, 2024 (SCI-Expanded)
- III. **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)
- IV. **Biosensing of arsenic by whole-cell bacterial bioreporter immobilized on polycaprolactone (PCL) electrospun fiber**
Arik N., Elcin E., TEZCANER A., ÖKTEM H. A.
Environmental Technology (United Kingdom), vol.45, no.23, pp.4874-4886, 2024 (SCI-Expanded)
- V. **Bilayer wound dressing composed of asymmetric polycaprolactone membrane and chitosan-carrageenan hydrogel incorporating storax balsam**
Nakipoglu M., Özkabadayı Y., Karahan S., TEZCANER A.
International Journal of Biological Macromolecules, vol.254, 2024 (SCI-Expanded)
- VI. **Bioprinted scaffolds assembled as synthetic skin grafts by natural hydrogels containing fibroblasts and bioactive agents**
Bostancı N. S., Büyüksungur S., Hasirci N., TEZCANER A.
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.73, no.11, pp.927-945, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **Bioadhesives with Antimicrobial Properties**
Nakipoglu M., Tezcaner A., Contag C. H., Annabi N., Ashammakhi N.
ADVANCED MATERIALS, vol.35, no.49, 2023 (SCI-Expanded)
- IX. **Optimization of whole-cell bacterial bioreporter immobilization on electrospun cellulose acetate (CA) and polycaprolactone (PCL) fibers for arsenic detection**
Arik N., Elcin E., Tezcaner A., Oktem H. A.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.195, no.6, 2023 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **Diatom silica frustules-doped fibers for controlled release of melatonin for bone regeneration**

- Deniz Dalgic A., Atila D., TEZCANER A., GÜRSES S., KESKİN D.
European Polymer Journal, vol.186, 2023 (SCI-Expanded)
- XIV. **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)
- XV. **Injectable methacrylated gelatin/thiolated pectin hydrogels carrying melatonin/tideglusib-loaded core/shell PMMA/silk fibroin electrospun fibers for vital pulp regeneration**
Atila D., Keskin D., Lee Y., Lin F., Hasirci V., Tezcaner A.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.222, 2023 (SCI-Expanded)
- XVI. **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)
- XVII. **Pullulan hydrogel-immobilized bacterial cellulose membranes with dual-release of vitamin C and E for wound dressing applications**
Atila D., Karataş A., Keskin D., Tezcaner A.
International Journal of Biological Macromolecules, vol.218, pp.760-774, 2022 (SCI-Expanded)
- XVIII. **Decellularized adipose tissue matrix-coated and simvastatin-loaded hydroxyapatite microspheres for bone regeneration.**
Kesim M. G., Durucan C., Atila D., Keskin D., Tezcaner A.
Biotechnology and bioengineering, vol.119, no.9, pp.2574-2589, 2022 (SCI-Expanded)
- XIX. **Potential of pectin for biomedical applications: a comprehensive review**
Bostanci N. S., Buyuksungur S., HASIRCI N., TEZCANER A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.33, no.14, pp.1866-1900, 2022 (SCI-Expanded)
- XX. **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)
- XXI. **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)
- XXII. **Lithocholic acid conjugated mPEG-b-PCL micelles for pH responsive delivery to breast cancer cells**
Isik G., KIZILTAY A., HASIRCI N., TEZCANER A.
International Journal of Pharmaceutics, vol.621, 2022 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Coaxial electrospinning of composite mats comprised of core/shell poly(methyl methacrylate)/silk fibroin fibers for tissue engineering applications**
Atila D., HASIRCI V. N., TEZCANER A.
Journal of the Mechanical Behavior of Biomedical Materials, vol.128, 2022 (SCI-Expanded)
- XXV. **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)
- XXVI. **Natural origin bilayer pullulan-PHBV scaffold for wound healing applications**
Dalgic A. D., Koman E., Karataş A., Tezcaner A., Keskin D.
Materials Science and Engineering C, vol.134, 2022 (SCI-Expanded)
- XXVII. **In vitro evaluation of injectable Tideglusib-loaded hyaluronic acid hydrogels incorporated with Rg1-loaded chitosan microspheres for vital pulp regeneration**
Atila D., Chen C., Lin C., Lee Y., HASIRCI V. N., TEZCANER A., Lin F.

- CARBOHYDRATE POLYMERS, vol.278, 2022 (SCI-Expanded)
- XXVIII. **RGD-Modified Titanium as an Improved Osteoinductive Biomaterial for Use in Dental and Orthopedic Implants**
Seemann A., Akbaba S., Buchholz J., Tuerkkan S., TEZCANER A., Woche S. K., Guggenberger G., Kirschning A., Draeger G.
BIOCONJUGATE CHEMISTRY, vol.33, no.2, pp.294-300, 2022 (SCI-Expanded)
- XXIX. **Xanthan-gelatin and xanthan-gelatin-keratin wound dressings for local delivery of Vitamin C**
Demir G. C., Erdemli Ö., KESKİN D., TEZCANER A.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.614, 2022 (SCI-Expanded)
- XXX. **pH responsive release of curcumin from photocrosslinked pectin/gelatin hydrogel wound dressings**
Bostancı N. S., Büyüksungur S., Hasırcı N., Tezcaner A.
Materials Science and Engineering C, vol.134, 2022 (SCI-Expanded)
- XXXI. **3D porous PCL-PEG-PCL / strontium, magnesium and boron multi-doped hydroxyapatite composite scaffolds for bone tissue engineering**
Yedekçi B., Tezcaner A., Yılmaz B., Demir T., Evis Z.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.125, 2022 (SCI-Expanded)
- XXXII. **Multilayer fibroin/chitosan oligosaccharide lactate and pullulan immunomodulatory patch for treatment of hernia and prevention of intraperitoneal adhesion**
Akbaba S., Atila D., KESKİN D., Tezcaner T., TEZCANER A.
Carbohydrate Polymers, vol.265, 2021 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **Synthesis and sintering of B, Sr, Mg multi-doped hydroxyapatites: Structural, mechanical and biological characterization**
YEDEKÇİ B., TEZCANER A., Alshemary A. Z., Yılmaz B., DEMİR T., EVİS Z.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.115, 2021 (SCI-Expanded)
- XXXVI. **Multifunctional natural polymer-based metallic implant surface modifications**
Pazarçeviren A. E., Tezcaner A., Evis Z.
BIOINTERPHASES, vol.16, no.2, 2021 (SCI-Expanded)
- XXXVII. **Topical delivery of heparin from PLGA nanoparticles entrapped in nanofibers of sericin/gelatin scaffolds for wound healing**
Basaran D. D. A., GÜNDÜZ U., TEZCANER A., KESKİN D.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.597, 2021 (SCI-Expanded)
- XXXVIII. **Cellulose acetate-gelatin-coated boron-bioactive glass biocomposite scaffolds for bone tissue engineering**
Rad R. M., Alshemary A. Z. G., Evis Z., Keskin D., Tezcaner A.
BIOMEDICAL MATERIALS, vol.15, 2020 (SCI-Expanded)
- XXXIX. **A dual-phase scaffold produced by rotary jet spinning and electrospinning for tendon tissue engineering**
Guner M. B., Dalgıç A. D., Tezcaner A., Yilanci S., Keskin D.
BIOMEDICAL MATERIALS, vol.15, 2020 (SCI-Expanded)
- XL. **PREPARATION AND CHARACTERISTICS OF CO-DOPED HYDROXYAPATITE BIOMIMETIC COATINGS ON PRETREATED Ti6Al4V ALLOY**
Hacıoğlu T., TEZCANER A., Abbas S., EVİS Z.
SURFACE REVIEW AND LETTERS, vol.27, no.11, 2020 (SCI-Expanded)
- XLI. **Dual growth factor delivery using PLGA nanoparticles in silk fibroin/PEGDMA hydrogels for**

articular cartilage tissue engineering

Fathi-Achachelouei M., Keskin D., Bat E., Vrana N. E., Tezcaner A.

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.108, pp.2041-2062, 2020 (SCI-Expanded)

- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **A comparative study of monoaxial and coaxial PCL/gelatin/Pluronic 188 scaffolds for bone tissue engineering**
Alissa Alam H., Dalgıç A. D., Tezcaner A., Özen C., Keskin D.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.69, no.6, pp.339-350, 2020 (SCI-Expanded)
- XLVI. **Multifunctional periodontal membrane for treatment and regeneration purposes**
Isik G., HASIRCI N., TEZCANER A., KIZILTAY A.
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.35, no.2, pp.117-138, 2020 (SCI-Expanded)
- XLVII. **Composite clinoptilolite/PCL-PEG-PCL scaffolds for bone regeneration: In vitro and in vivo evaluation**
Pazarçeviren A. E., Dikmen T., Altunbas K., Yaprakci V., Erdemli O., Keskin D., Tezcaner A.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.14, pp.3-15, 2020 (SCI-Expanded)
- XLVIII. **Bacterial cellulose-reinforced boron-doped hydroxyapatite/gelatin scaffolds for bone tissue engineering**
Atila D., Karataş A., Evcin A., Keskin D., Tezcaner A.
CELLULOSE, vol.26, pp.9765-9785, 2019 (SCI-Expanded)
- XLIX. **Nanocrystalline Zn²⁺ and SO₄²⁻ binary doped fluorohydroxyapatite: A novel biomaterial with enhanced osteoconductive and osteoinconductive properties**
ALSHEMARY A. Z. G., Pazarçeviren E. A., DALGIÇ A. D., Tezcaner A., KESKİN D., EVİS Z.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.104, 2019 (SCI-Expanded)
- L. **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)
- LI. **Development of a novel functionally graded membrane containing boron-modified bioactive glass nanoparticles for guided bone regeneration**
Rad R. M., Atila D., Evis Z., Keskin D., Tezcaner A.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.13, pp.1331-1345, 2019 (SCI-Expanded)
- LII. **Evaluation of human dental pulp stem cells behavior on a novel nanobiocomposite scaffold prepared for regenerative endodontics**
Rad R. M., Atila D., Akgun E. E., Evis Z., Keskin D., Tezcaner A.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.100, pp.928-948, 2019 (SCI-Expanded)
- LIII. **Diatom shell incorporated PHBV/PCL-pullulan co-electrospun scaffold for bone tissue engineering**
Dalgıç A. D., Atila D., Karataş A., Tezcaner A., Keskin D.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.100, pp.735-746, 2019 (SCI-Expanded)

- LIV. **Use of Nanoparticles in Tissue Engineering and Regenerative Medicine**
Fathi-Achachelouei M., Knopf-Marques H., Ribeiro da Silva C. E., Barthes J., BAT E., TEZCANER A., Vrana N. E.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (SCI-Expanded)
- LV. **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)
- LVI. **A new therapeutic combination for osteosarcoma: Gemcitabine and Clofazimine co-loaded liposomal formulation**
Caliskan Y., DALGIÇ A. D., Gerecki S., Gulec E. A., TEZCANER A., ÖZEN C., KESKİN D.
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- XXXVII. TEZCANER A., KESKİN D., Project Supported by Higher Education Institutions, Klinoptilolit /Poli ?-kaprolakton - Poli etilen glikol - Poli ?-kaprolakton (PCL-PEG-PCL) Triblok Kopolimer Temelli Hücre Taşıyıcıların Geliştirilmesi ve Karakterizasyonu, 2014 - 2015
- XXXVIII. TEZCANER A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014
- XXXIX. TEZCANER A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014
- XL. TEZCANER A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014
- XLI. KESKİN D., Barçın Z., TEZCANER A., Project Supported by Higher Education Institutions, Kan Beyin Bariyeri Ötesine Kontrollü Salım Sistemleri ile İlaç Taşınması, 2013 - 2014
- XLII. TEZCANER A., AKDAĞ A., ATAOL S., Machin N., KESKİN D., Project Supported by Higher Education Institutions, Kemik Hasarlarının Tedavisine Yönelik Nanohidroksiapatit ile Güçlendirilmiş Üç Boyutlu Fibroin ve Pektin Taşıyıcılarının Geliştirilmesi ve In Vitro Karakterizasyonu, 2013 - 2014
- XLIII. GÜNDÜZ U., Yalçın Azarkan S., Ünsoy G., TEZCANER A., MUTLU P., Project Supported by Higher Education Institutions, Kanser Hücre Hatlarında Sirna Yüklü Manyetik Nanoparçacıklar Yoluyla Survivin İfadesinin Engellenmesi, 2012 - 2014
- XLIV. TEZCANER A., Rad Moonesi Rad R., Project Supported by Higher Education Institutions, Diş Uygulamalarına Yönelik Polimer-Biyocam Nanobiokompozit Geliştirilmesi ve Karakterizasyonu, 2013 - 2013
- XLV. BANERJEE S., Kavas A., KESKİN D., TEZCANER A., Project Supported by Higher Education Institutions, Polimerik İlaç Salım Sistemleri ile Prostat Kanseri Tedavisi için Yeni Hedefleme Stratejileri Geliştirilmesi, 2013 - 2013
- XLVI. TEZCANER A., AYDOĞDU H., Project Supported by Higher Education Institutions, OSTEOKONDRAL HASARLAR İÇİN AFİNİTE TEMELLİ ÜÇ BOYUTLU DOKU İSKELESİ GELİŞTİRİLMESİ, 2013 - 2013
- XLVII. KESKİN D., TEZCANER A., DALGIÇ A. D., Project Supported by Higher Education Institutions, Antikanser İlaç İçeren Ve Cd 20 Karşıtı Antikor İle Hedefli Lipozomal Sistemin Lösemi Ve Lenfoma Hastalıkları Tedavisinde In Vitro Etkinliğinin Araştırılması., 2012 - 2013
- XLVIII. TEZCANER A., ÖZEN C., GÜLDİKEN M., KESKİN D., DURUCAN C., ATAOL S., Project Supported by Higher Education Institutions, Kemik Hasarlarının Tedavisine Yönelik Simvastatin Yüklü Mikrotaşıyıcıların Geliştirilmesi Ve Karakterizasyonu, 2012 - 2013
- XLIX. TEZCANER A., Project Supported by Higher Education Institutions, Osteoporoz Tedavisine Yönelik Kemik Hedefli Plga-Pcl Nanokürelerin Hazırlanması Ve Karakterizasyonu, 2011 - 2012
- L. TEZCANER A., Project Supported by Higher Education Institutions, Immunoglobulin G Antikoru Yüklü Fibroin Mikrokürelerinin Hazırlanması Ve Salım Kinetiğinin İncelenmesi, 2009 - 2010
- LI. TEZCANER A., Project Supported by Higher Education Institutions, Osteoartiritte Matriks Proteinlerinin Gen Ekspresyonuna Raloksifenin Etkisi, 2009 - 2009

Patent

- I. Tezcaner A., Pazarçeviren A. E., Evis Z., Keskin D., Akbaba S., KEMİK İMPLANTLARI İÇİN BİR KAPLAMA YÖNTEMİ, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2021 009750 B , Standard Registration, 2023

- II. Tezcaner A., Keskin D., Özen S., Atilla B., Usanmaz A., Kocaefe Y. Ç., Erdemli Ö., Anti-TNF alfa ilaç Yüklü Polimerik Kontrollü Salım Sistemi, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: TR 2015 03287 B , Standard Registration, 2020

Activities in Scientific Journals

- I. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, Editor, 2019 - 2024

Memberships / Tasks in Scientific Organizations

- I. MÜHENDİSLİK ARAŞTIRMA GRUBU , Executive Board Member, 2019 - 2022, Turkey

Scientific Refereeing

- I. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023
- II. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023
- III. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2023
- IV. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2023
- V. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2023
- VI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023
- VII. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2023
- VIII. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2023
- IX. TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, December 2023
- X. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2023
- XI. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2023
- XII. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2023
- XIII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2023
- XIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2023
- XV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2023
- XVI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2023
- XVII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2023
- XVIII. CARBOHYDRATE POLYMERS, Journal Indexed in SCI-E, May 2023
- XIX. CARBOHYDRATE POLYMERS, Journal Indexed in SCI-E, March 2023
- XX. BIOMACROMOLECULES, SCI Journal, August 2022
- XXI. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, SCI Journal, June 2022
- XXII. CARBOHYDRATE POLYMERS, SCI Journal, March 2022
- XXIII. INTERNATIONAL JOURNAL OF PHARMACEUTICS, SCI Journal, November 2021
- XXIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East

- Technical University, Turkey, November 2021
- XXV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021
- XXVI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021
- XXVII. TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Middle East Technical University, Turkey, November 2021
- XXVIII. TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Middle East Technical University, Turkey, November 2021
- XXIX. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021
- XXX. TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Middle East Technical University, Turkey, November 2021
- XXXI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021
- XXXII. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, SCI Journal, September 2021
- XXXIII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2021
- XXXIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2021
- XXXV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, July 2021
- XXXVI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, July 2021
- XXXVII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
- XXXVIII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
- XXXIX. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
- XL. Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, March 2021
- XLI. Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, March 2021
- XLII. TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, February 2021
- XLIII. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, SCI Journal, January 2021
- XLIV. BIOMEDICAL MATERIALS (BRISTOL, ENGLAND), SCI Journal, January 2021
- XLV. TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, January 2021
- XLVI. TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Middle East Technical University, Turkey, January 2021
- XLVII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2020
- XLVIII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2020
- XLIX. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, Journal Indexed in SCI-E, October 2020
- L. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, October 2020
- LI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2020

- LII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2020
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- LIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2020
- LV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2020
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- LVIII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2020
- LIX. Project Supported by Higher Education Institutions, BAP Infrastructure, Middle East Technical University, Turkey, August 2020
- LX. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2020
- LXI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2020
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- LXIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2020
- LXV. TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, July 2020
- LXVI. JOURNAL OF MATERIALS SCIENCE, Journal Indexed in SCI-E, May 2020
- LXVII. CERAMICS INTERNATIONAL, SCI Journal, February 2020
- LXVIII. CARBOHYDRATE POLYMERS, SCI Journal, February 2020
- LXIX. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, January 2020
- LXX. CELLULOSE, Journal Indexed in SCI-E, December 2019
- LXXI. CARBOHYDRATE POLYMERS, SCI Journal, December 2019
- LXXII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2019
- LXXIII. TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Middle East Technical University, Turkey, December 2019
- LXXIV. TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, December 2019
- LXXV. TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Middle East Technical University, Turkey, December 2019
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- LXXIX. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2019
- LXXX. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East

- Technical University, Turkey, October 2019
- LXXXI. Cellulose, Journal Indexed in SCI-E, September 2019
- LXXXII. TÜBA Project, Middle East Technical University, Turkey, September 2019
- LXXXIII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2019
- LXXXIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, July 2019
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- LXXXVII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
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- LXXXIX. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
- XC. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
- XCI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
- XCII. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2019
- XCIII. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- XCIV. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- XCV. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- XCVI. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, March 2019
- XCVII. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- XCVIII. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- XCIX. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- C. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- CI. TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Middle East Technical University, Turkey, March 2019
- CII. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- CIII. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019
- CIV. TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, February 2019
- CV. Technopark, TEKNOKENT, Turkey, November 2018
- CVI. TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Middle East Technical University, Turkey, October 2018
- CVII. BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Middle East Technical University, Turkey, June 2018

- CVIII. BOREN, Ulusal Bor Arařtırma Enstitüsü Projesi, Middle East Technical University, Turkey, June 2018
CIX. TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, February 2018

Scientific Consultations

- I. BİOMETRON , Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, Turkey, 2019 - 2021

Tasks In Event Organizations

- I. Çimenođlu H., Durucan C., Elçin A. E., Elçin Y. M., Hasırcı N., Hasırcı V. N., Korkusuz F., Korkusuz P., Keskin D., K k F. N., et al., BIOMED-2021 TR, Scientific Congress, Ankara, Turkey, Aralık 2021

Metrics

Publication: 188
Citation (WoS): 3093
Citation (Scopus): 3555
H-Index (WoS): 33
H-Index (Scopus): 37

Congress and Symposium Activities

- I. 20. Uluslararası Katılımlı Biyoteknoloji Kongresi, Invited Speaker, Ankara, Turkey, 2019
II. K k H cre ve H cresel Tedaviler Kongresi , Invited Speaker, İstanbul, Turkey, 2019

Awards

- I. Tezcaner A., Evis Z., 2021-2022 METU BEST PHD THESIS AWARD IN ENGINEERING SCIENCES, Odt  Fen Bilimleri Doktora Tez  d l , October 2023

Coaching Duties

Refereeing Duties

Non Academic Experience

- I. Other Public Institution, TUBİTAK
II. T BİTAK