

## Prof. VASIF NEJAT HASIRCI

### Personal Information

**Email:** vhasirci@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/vhasirci>

### Advising Theses

- HASIRCI V. N., DEVELOPMENT OF A BONE TUMOR MODEL UNDER IN VITRO CONDITIONS, Doctorate, A.KÖMEZ(Student), 2019
- HASIRCI V. N., Patient-specific orthopedic implant design and production with tissue engineering method, Doctorate, S.Büyüksungur(Student), 2019
- HASIRCI V. N., A Bio and synthetic polymer based nerve guide tested under in vitro and in vivo conditions, Doctorate, T.Dursun(Student), 2019
- HASIRCI V. N., HASIRCI N., Development of a bone tumor model under in vitro conditions, Doctorate, A.Kömez(Student), 2019
- HASIRCI V. N., Development and characterization of a tissue engineered multicomponent skin substitute and a skin model, Doctorate, G.EKE(Student), 2018
- HASIRCI V. N., 3D printed, cell carrying gelma hydrogels in corneal stroma engineering, Doctorate, C.BEKTAŞ(Student), 2018
- HASIRCI V. N., Development of a siRNA delivery system for the treatment of osteoporosis, Doctorate, D.SEZLEV(Student), 2018
- HASIRCI V. N., A three-dimensional printed, polycaprolactone/hydrogel based, tissue engineered meniscus, Doctorate, G.BAÇEÇİOĞLU(Student), 2018
- HASIRCI V. N., Influence of microenvironment on tissue engineering applications, Doctorate, E.SAYIN(Student), 2017
- HASIRCI V. N., Cell-surface interactions in a breast cancer model, Doctorate, E.ANTMEN(Student), 2017
- HASIRCI V. N., Influence of micropatterns on human mesenchymal stem cell fate /, Postgraduate, O.HASTÜRK(Student), 2016
- HASIRCI V. N., Bone tissue engineering using macroporous PHA-PLA and PHBV scaffolds produced by additive manufacturing and wet spinning, Doctorate, A.SELCEN(Student), 2016
- HASIRCI V. N., Influence of micropatterned polymeric substrates on cancer cell behavior, Doctorate, M.ERMİŞ(Student), 2016
- HASIRCI V. N., Construction of retina substitute by using tissue engineering approach /, Postgraduate, A.KÖMEZ(Student), 2015
- HASIRCI V. N., In vitro characterization and nuclear delivery of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) (PHBV) based nanoparticles /, Postgraduate, A.ŞAHİN(Student), 2015
- HASIRCI V. N., A polymeric implant for lumbar bone defects, Postgraduate, B.BÜŞRA(Student), 2015
- HASIRCI V. N., HASIRCI N., A Polymeric material for lumbar bone defects /, Postgraduate, B.Günay(Student), 2015
- HASIRCI V. N., Controlled doxorubicin delivery from photoresponsive liposomes carrying vitamin A derivatives /, Postgraduate, S.HEPER(Student), 2014
- HASIRCI V. N., The effect of physical properties of the ELP-collagen based patterned surfaces on cell attachment and deformation, Postgraduate, E.ANTMEN(Student), 2013
- HASIRCI V. N., Tissue engineering of small diameter vascular grafts by using PCL/collagen based scaffolds, Postgraduate, S.ÖNCÜ(Student), 2013
- HASIRCI V. N., Preparation and characterization of polymeric hard tissue supports, Doctorate, T.ENDOĞAN(Student), 2013

HASIRCI V. N., pH responsive nano carriers for anti cancer drug delivery, Doctorate, S.BAGHERIFAM(Student), 2013

HASIRCI V. N., Polyethylenimine-starch nanoparticles for cancer gene therapy, Postgraduate, B.BİLGENUR(Student), 2013

HASIRCI V. N., Bioactive agents carrying quantum dot labeled liposomes, Doctorate, A.BÜYÜKSUNGUR(Student), 2013

HASIRCI V. N., AŞÇIOĞLU ÖZ G., PEI – starch nanoparticles for cancer gene therapy, Postgraduate, B.Bilgenur(Student), 2013

HASIRCI V. N., Hasirci V., Construction of a collagen-based, split thickness cornea substitute, Postgraduate, A.Acun(Student), 2013

HASIRCI V. N., Study on the influence of scaffold inner organization on the treatment of spinal cord injury, Postgraduate, T.DURSUN(Student), 2013

HASIRCI V. N., Study of patterned, multilayered, collagen-based scaffolds designed to serve as a cornea stroma, Postgraduate, C.KILIÇ(Student), 2013

HASIRCI V. N., Interaction between micro and nano patterned polymeric surfaces and different cell types, Doctorate, H.ÖZÇELİK(Student), 2012

HASIRCI V. N., Composition-property relationship of PCL based polyurethanes, Postgraduate, A.GÜNEY(Student), 2012

HASIRCI V. N., Bioactive agent carrying PLGA nanoparticles in the treatment of skin diseases, Postgraduate, A.KÜÇÜKTURHAN(Student), 2012

HASIRCI V. N., Multiwalled carbon nanotube-poly (2-hydroxyethyl methacrylate) composite conduit for peripheral nerve repair, Postgraduate, D.ARSLANTUNALI(Student), 2012

HASIRCI V. N., Biopolymer based micro/nanoparticles as drug carriers for the treatment of skin diseases, Postgraduate, G.EKE(Student), 2011

HASIRCI V. N., Collagen-based meniscus tissue engineering: Design and application, Doctorate, A.NDREU(Student), 2011

HASIRCI V. N., Plasma surface modification and characterization of pmma films, Postgraduate, Ö.ÖZGEN(Student), 2011

HASIRCI V. N., UV responsive drug delivery from suprofen incorporated liposomes, Postgraduate, B.DEMİRBAĞ(Student), 2011

HASIRCI V. N., Poly(L-Lactic acid) (PLLA)-based meniscus tissue engineering, Postgraduate, G.BAHÇECİOĞLU(Student), 2011

HASIRCI V. N., Hasirci V., Collagen scaffolds with in situ grown calcium phosphate for osteogenic differentiation of wharton's jelly and menstrual blood stem cells, Postgraduate, Ö.Karadaş(Student), 2011

HASIRCI V. N., Collagen scaffolds with in situ grown calcium phosphate for osteogenic differentiation of Wharton's jelly and menstrual blood stem cells, Postgraduate, Ö.KARADAŞ(Student), 2011

HASIRCI V. N., Free standing layer-by-layer films of polyethylenimine and poly(L-lysine) for potential use in corneal stroma engineering, Postgraduate, G.ALTAI(Student), 2011

HASIRCI V. N., Investigation of cell migration and proliferation in agarose based hydrogels for tissue engineering applications, Postgraduate, E.VARDAR(Student), 2010

HASIRCI V. N., Preparation and characterization of chitosan-gelatin/hydroxyapatite scaffolds for hard tissue engineering approaches, Postgraduate, C.İŞIKLI(Student), 2010

HASIRCI V. N., Biodegradable polymer-hydroxyapatite nanocomposites for bone plate applications, Doctorate, E.AYDIN(Student), 2010

HASIRCI V. N., Hasirci V., Tissue engineering of full-thickness human oral mucosa, Doctorate, B.Kınıkoğlu(Student), 2010

HASIRCI V. N., Sequential growth factor delivery from polymeric scaffolds for bone tissue engineering, Doctorate, P.YILGÖR(Student), 2009

HASIRCI V. N., Stem cell based nerve tissue engineering on guided constructs, Doctorate, D.YÜCEL(Student), 2009

HASIRCI V. N., Design of intelligent nanoparticles for use in controlled release, Postgraduate, B.BAYYURT(Student), 2009

HASIRCI V. N., Nanopatterned tubular collagen scaffolds for vascular tissue engineering, Doctorate, P.ZORLUTUNA(Student), 2009

HASIRCI V. N., Thermoresponsive smart polymeric cell carriers of pnipan and elp for bone tissue engineering, Postgraduate, N.Öztürk(Student), 2008

HASIRCI V. N., 3D patterned cardiac tissue construct formation using biodegradable materials, Doctorate, H.KENAR(Student), 2008

HASIRCI V. N., Sequential growth factor delivery from complexed microspheres for bone tissue engineering,

Postgraduate, F.BUKET(Student), 2007

HASIRCI V. N., Electrospun nanofibrous scaffolds for tissue engineering, Postgraduate, A.NDREU(Student), 2007

HASIRCI V. N., Collagen-based scaffolds for cornea tissue engineering, Postgraduate, N.ENGİN(Student), 2006

KESKİN D., HASIRCI V. N., Development and analysis of controlled release polymeric rods containing vancomycin, Postgraduate, O.TAĞIT(Student), 2005

TEZCANER A., HASIRCI V. N., Cornea engineering on biodegradable polyesters, Postgraduate, P.ZORLUTUNA(Student), 2005

TEZCANER A., HASIRCI V. N., Development of a genetic material transfer approach for gene therapy, Postgraduate, Ş.AYAZ(Student), 2005

HASIRCI V. N., Poly (N-vinyl 2-pyrrolidone) based hydrogels for the delivery of bioactive species, Postgraduate, S.ÇINAR(Student), 2003

HASIRCI V. N., Collagen matrices for guided tissue engineering, Postgraduate, S.BER(Student), 2003

HASIRCI V. N., In vitro bone tissue engineering on patterned biodegradable polyester blends, Postgraduate, H.KENAR(Student), 2003

HASIRCI V. N., Construction of a choline oxidase biosensor, Postgraduate, D.YÜCEL(Student), 2003

HASIRCI V. N., Biodegradable bone plates and bone marrow extract loaded microcapsules in bone repair., Postgraduate, S.COŞKUN(Student), 2002

HASIRCI V. N., Dual action, photoactive liposomes as cancer drug carriers, Postgraduate, Ö.ÖĞÜN(Student), 2002

HASIRCI V. N., KORKUSUZ F., Bone tissue generation on biodegradable polymeric scaffolds, Doctorate, G.Torun(Student), 2002

HASIRCI V. N., Bone tissue generation on biodegradable polymeric scaffold, Doctorate, G.TORUN(Student), 2002

HASIRCI V. N., Hybridoma development: monoclonal antibody production in search for protein purification, Postgraduate, G.YÜCEL(Student), 2002

HASIRCI V. N., Controlled release of pain relievers for the alleviation of chronic pain, Doctorate, D.ŞENDİL(Student), 2001

HASIRCI V. N., Hasırcı V., Construction of an acetylcholinesterase-choline oxidase biosensor for the determination of aldicarb, Doctorate, F.Neşe(Student), 2001

HASIRCI V. N., Controlled release of pain relievers for the alleviation of chronic pain., Doctorate, D.Şendil(Student), 2001

HASIRCI V. N., Tissue engineered retinal pigment epithelium, Doctorate, A.TEZCANER(Student), 2001

HASIRCI V. N., Increase of asparaginase in vivo half life by encapsulation and surface modification, Doctorate, E.TÜRKER(Student), 2001

HASIRCI V. N., Construction of an acetylcholinesterase-cholin oxidase biosensor for the determination of aldicarb, Doctorate, F.NEŞE(Student), 2001

HASIRCI V. N., Bacterial production and screening of polyhydroxyalkanoates by using a novel spectrofluorometric method, Postgraduate, B.EMRE(Student), 1999

HASIRCI V. N., Controlled release of antibiotics from biodegradable polyhydroxyalkanoate implants for the treatment of osteomyelitis, Postgraduate, F.TÜRESİN(Student), 1998

HASIRCI V. N., Antibiotic release from biodegradable microbial polyesters, Postgraduate, D.ŞENDİL(Student), 1997

HASIRCI V. N., The Development of a hard tissue substitute and its use in drug release, Postgraduate, M.BURAK(Student), 1997

HASIRCI V. N., Liposome-derived model DNA delivery systems, Postgraduate, M.REZA(Student), 1996

HASIRCI V. N., Changing the liposomal surface properties by means of low molecular weight heparin, Postgraduate, G.KÖSE(Student), 1996

HASIRCI V. N., Hasırcı V., Use of microbial polyhydroxyalkanoates in the construction of biomedical drug release systems, Doctorate, İ.Gürsel(Student), 1995

HASIRCI V. N., Structural stability of liposomes and the influence of constituents, Postgraduate, A.BORUCU(Student), 1994

HASIRCI V. N., Development of a novel enzyme immobilization technique and its application to continuous flow membrane reactor., Doctorate, M.Yakup(Student), 1992

HASIRCI V. N., Enzyme entrapment in polymer coated liposomes, Doctorate, M.Yaşar(Student), 1990

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Variations of chemical, physical, mechanical properties, and biological and antimicrobial effectiveness of Ti alloys by coating with CaP doped with different amounts of Zn via micro-arc oxidation (MAO) technique**  
BÜYÜKSUNGUR S., Parau A. C., Dinu M., Pana I., Vitelaru C., Schmidt J., ENDOĞAN TANIR T., Hasirci V., Vladescu (Dragomir) A., Hasirci N.  
Ceramics International, vol.50, no.19, pp.37096-37110, 2024 (SCI-Expanded)
- II. **MgCa-Based Alloys Modified with Zn- and Ga-Doped CaP Coatings Lead to Controlled Degradation and Enhanced Bone Formation in a Sheep Cranium Defect Model**  
Gokyer S., Monsef Y. A., BÜYÜKSUNGUR S., Schmidt J., Vladescu Dragomir A., Uygur S., Uygur S., ORHAN K., Hasirci V., Hasirci N., et al.  
ACS Biomaterials Science and Engineering, vol.10, no.7, pp.4452-4462, 2024 (SCI-Expanded)
- III. **Advances in In Vitro Blood-Air Barrier Models and the Use of Nanoparticles in COVID-19 Research**  
SEVİNÇ ÖZDEMİR N., Belyaev D., Castro M. N., Balakin S., Opitz J., Wihadmadyatami H., Anggraeni R., YÜCEL D., KENAR H., Beshchasna N., et al.  
Tissue Engineering - Part B: Reviews, vol.30, no.1, pp.82-96, 2024 (SCI-Expanded)
- IV. **In vitro cytotoxicity, corrosion and antibacterial efficiencies of Zn doped hydroxyapatite coated Ti based implant materials**  
Buyuksungur S., YILGÖR HURİ P., Schmidt J., Pana I., Dinu M., Vitelaru C., Kiss A. E., Tamay D. G., Hasirci V., Vladescu A., et al.  
Ceramics International, vol.49, no.8, pp.12570-12584, 2023 (SCI-Expanded)
- V. **Zn doped CaP coatings used for controlling the degradation rate of MgCa1 alloy: In vitro anticorrosive properties, sterilization and bacteria/cell-material interactions**  
Schmidt J., Pana I., Bystrova A., Dinu M., Dekhtyar Y., Vitelaru C., Gorohovs M., Marinescu I. M., HURİ P., Tamay D. G., et al.  
Colloids and Surfaces B: Biointerfaces, vol.222, 2023 (SCI-Expanded)
- VI. **Corrosion Resistance and Cytocompatibility of Magnesium-Calcium Alloys Modified with Zinc- or Gallium-Doped Calcium Phosphate Coatings**  
TAMAY D. G., Gokyer S., Schmidt J., Vladescu A., HURİ P., Hasirci V., HASIRCI N.  
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.1, pp.104-122, 2022 (SCI-Expanded)
- VII. **A Cell Culture Chip with Transparent, Micropillar-Decorated Bottom for Live Cell Imaging and Screening of Breast Cancer Cells**  
Ermis M., ANTMEN ALTUNSOY E., Kuren O., Demirci U., Hasirci V.  
MICROMACHINES, vol.13, no.1, 2022 (SCI-Expanded)
- VIII. **3D printed hybrid bone constructs of PCL and dental pulp stem cells loaded GelMA**  
Buyuksungur S., Hasirci V., HASIRCI N.  
Journal of Biomedical Materials Research - Part A, vol.109, no.12, pp.2425-2437, 2021 (SCI-Expanded)
- IX. **Evaluating Oxygen Tensions Related to Bone Marrow and Matrix for MSC Differentiation in 2D and 3D Biomimetic Lamellar Scaffolds**  
Sayin E., Baran E. T., Elsheikh A., Mudera V., Cheema U., Hasirci V.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.8, 2021 (SCI-Expanded)
- X. **A Circulating Bioreactor Reprograms Cancer Cells Toward a More Mesenchymal Niche**  
Calamak S., Ermis M., Sun H., Islam S., Sikora M., Nguyen M., Hasirci V., Steinmetz L. M., Demirci U.  
ADVANCED BIOSYSTEMS, vol.4, no.2, 2020 (SCI-Expanded)
- XI. **Cell loaded 3D bioprinted GelMA hydrogels for corneal stroma engineering**  
BEKTAŞ C., Hasirci V.  
BIOMATERIALS SCIENCE, vol.8, no.1, pp.438-449, 2020 (SCI-Expanded)
- XII. **A two-compartment bone tumor model to investigate interactions between healthy and tumor cells**  
Komez A., Buyuksungur A., Antmen E., Swieszkowski W., HASIRCI N., Hasirci V.  
Biomedical Materials (Bristol), vol.15, no.3, 2020 (SCI-Expanded)

- XIII. **Amplification of nuclear deformation of breast cancer cells by seeding on micropatterned surfaces to better distinguish their malignancies**  
ANTMEN ALTUNSOY E., Demirci U., Hasirci V.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.183, 2019 (SCI-Expanded)
- XIV. **Anatomical meniscus construct with zone specific biochemical composition and structural organization**  
Bahcecioglu G., Bilgen B., Hasirci N., Hasirci V.  
BIOMATERIALS, vol.218, 2019 (SCI-Expanded)
- XV. **Methacrylated gelatin hydrogels as corneal stroma substitutes: in vivo study**  
BEKTAŞ C., Burcu A., Gedikoglu G., Telek H. H., Ornek F., Hasirci V.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.30, no.18, pp.1803-1821, 2019 (SCI-Expanded)
- XVI. **3D and 4D Printing of Polymers for Tissue Engineering Applications**  
Tamay D. G., DURSUN USAL T., Alagoz A. S., Yucel D., HASIRCI N., Hasirci V.  
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (SCI-Expanded)
- XVII. **Square prism micropillars on poly(methyl methacrylate) surfaces modulate the morphology and differentiation of human dental pulp mesenchymal stem cells**  
Hasturk O., Ermis M., Demirci U., Hasirci N., Hasirci V.  
Colloids and Surfaces B: Biointerfaces, vol.178, pp.44-55, 2019 (SCI-Expanded)
- XVIII. **A 3D printed PCL/hydrogel construct with zone-specific biochemical composition mimicking that of the meniscus**  
Bahcecioglu G., Hasirci N., Bilgen B., HASIRCI V. N.  
BIOFABRICATION, vol.11, no.2, 2019 (SCI-Expanded)
- XIX. **Microfibrous scaffolds from poly(L-lactide-co-epsilon-caprolactone) blended with xeno-free collagen/hyaluronic acid for improvement of vascularization in tissue engineering applications**  
KENAR H., Ozdogan C. Y., Dumlu C., DOĞER E., Kose G. T., Hasirci V.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.97, pp.31-44, 2019 (SCI-Expanded)
- XX. **Cell behavior on the alginate-coated PLLA/PLGA scaffolds**  
Bahcecioglu G., Hasirci N., HASIRCI V. N.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.124, pp.444-450, 2019 (SCI-Expanded)
- XXI. **Engineered natural and synthetic polymer surfaces induce nuclear deformation in osteosarcoma cells**  
Antmen E., ERMİŞ ŞEN M., Demirci U., HASIRCI V. N.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.107, no.2, pp.366-376, 2019 (SCI-Expanded)
- XXII. **Hydrogels of agarose, and methacrylated gelatin and hyaluronic acid are more supportive for in vitro meniscus regeneration than three dimensional printed polycaprolactone scaffolds**  
Bahcecioglu G., Hasirci N., Bilgen B., HASIRCI V. N.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.122, pp.1152-1162, 2019 (SCI-Expanded)
- XXIII. **A novel GelMA-pHEMA hydrogel nerve guide for the treatment of peripheral nerve damages**  
DURSUN USAL T., Yucel D., Hasirci V.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.121, pp.699-706, 2019 (SCI-Expanded)
- XXIV. **A novel GelMA-pHEMA hydrogel nerve guide for the treatment of peripheral nerve damages.**  
DURSUN USAL T., YÜCEL D., HASIRCI V. N.  
International Journal Of Biological Macromolecules, vol.121, pp.699-706, 2018 (SCI-Expanded)
- XXV. **Micro and Nanofabrication methods to control cell-substrate interactions and cell behavior: A review from the tissue engineering perspective**  
ERMİŞ ŞEN M., Antmen E., HASIRCI V. N.  
BIOACTIVE MATERIALS, vol.3, no.3, pp.355-369, 2018 (SCI-Expanded)
- XXVI. **Effect of chemical structure on properties of polyurethanes: Temperature responsiveness and biocompatibility**

- Komez A., Buyuksungur S., Hasirci V., HASIRCI N.  
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.33, no.5, pp.479-497, 2018 (SCI-Expanded)
- XXVII. **PHBV wet-spun scaffold coated with ELR-REDV improves vascularization for bone tissue engineering**  
Alagoz A. S., Rodriguez-Cabello J. C., HASIRCI V. N.  
BIOMEDICAL MATERIALS, vol.13, no.5, 2018 (SCI-Expanded)
- XXVIII. **Effects of microarchitecture and mechanical properties of 3D microporous PLLA-PLGA scaffolds on fibrochondrocyte and L929 fibroblast behavior**  
Bahcecioglu G., Hasirci N., HASIRCI V. N.  
BIOMEDICAL MATERIALS, vol.13, no.3, 2018 (SCI-Expanded)
- XXIX. **Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces**  
Hasturk O., ERMIŞ M., Demirci U., Hasirci N., HASIRCI V. N.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.29, no.5, 2018 (SCI-Expanded)
- XXX. **Development of PEI-RANK siRNA Complex Loaded PLGA Nanocapsules for the Treatment of Osteoporosis**  
Bilecen D. S., Uludag H., HASIRCI V. N.  
TISSUE ENGINEERING PART A, vol.25, pp.34-43, 2018 (SCI-Expanded)
- XXXI. **Mimicking corneal stroma using keratocyte-loaded photopolymerizable methacrylated gelatin hydrogels**  
Bektas C. K., HASIRCI V. N.  
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.12, no.4, 2018 (SCI-Expanded)
- XXXII. **A bilayer scaffold prepared from collagen and carboxymethyl cellulose for skin tissue engineering applications**  
Bektas C. K., Kimiz I., ŞENDEMİR A., Hasirci V., Hasirci N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, no.14, pp.1764-1784, 2018 (SCI-Expanded)
- XXXIII. **Nuclear targeting peptide-modified, DOX-loaded, PHBV nanoparticles enhance drug efficacy by targeting to Saos-2 cell nuclear membranes**  
Sahin A., Eke G., Buyuksungur A., Hasirci N., HASIRCI V. N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, no.5, pp.507-519, 2018 (SCI-Expanded)
- XXXIV. **PCL and PCL-based materials in biomedical applications**  
Malikmammadov E., ENDOĞAN TANIR T., KIZILTAY A., Hasirci V., Hasirci N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, pp.863-893, 2018 (SCI-Expanded)
- XXXV. **PCL-TCP wet spun scaffolds carrying antibiotic-loaded microspheres for bone tissue engineering**  
Malikmammadov E., ENDOĞAN TANIR T., KIZILTAY A., Hasirci V., Hasirci N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, pp.805-824, 2018 (SCI-Expanded)
- XXXVI. **3D printed poly(epsilon-caprolactone) scaffolds modified with hydroxyapatite and poly(propylene fumarate) and their effects on the healing of rabbit femur defects**  
Büyüksungur S., Tanir T., Büyüksungur A., Bektas E. I., Kose G. T., Yücel D., Beyzadeoglu T., Çetinkaya E., Yenigün C., Tönük E., et al.  
BIOMATERIALS SCIENCE, vol.5, no.10, pp.2144-2158, 2017 (SCI-Expanded)
- XXXVII. **Development of a UV crosslinked biodegradable hydrogel containing adipose derived stem cells to promote vascularization for skin wounds and tissue engineering**  
Eke G., Mangir N., Hasirci N., MacNeil S., HASIRCI V. N.  
BIOMATERIALS, vol.129, pp.188-198, 2017 (SCI-Expanded)
- XXXVIII. **Cartilage tissue engineering on macroporous scaffolds using human tooth germ stem cells**  
Koyuncu A. C. C., Pekozer G. G., Ramazanoğlu M. K., KÖSE G., HASIRCI V. N.  
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.11, no.3, pp.765-777, 2017 (SCI-Expanded)
- XXXIX. **A cell attracting composite of lumbar fusion cage**  
Gunay B., Hasirci N., HASIRCI V. N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.28, no.8, pp.749-767, 2017 (SCI-Expanded)
- XL. **Construction of a PLGA based, targeted siRNA delivery system for treatment of osteoporosis**

- Bilecen D. S., Carlos Rodriguez-Cabello J., Uludag H., HASIRCI V. N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.28, no.16, pp.1859-1873, 2017 (SCI-Expanded)
- XLII. **Quantification of Type, Timing, and Extent of Cell Body and Nucleus Deformations Caused by the Dimensions and Hydrophilicity of Square Prism Micropillars**  
Hasturk O., Sivas A., KARASÖZEN B., Demirci U., Hasirci N., HASIRCI V. N.  
ADVANCED HEALTHCARE MATERIALS, vol.5, no.23, pp.2972-2982, 2016 (SCI-Expanded)
- XLIII. **A high throughput approach for analysis of cell nuclear deformability at single cell level**  
Ermis M., Akkaynak D., Chen P., Demirci U., HASIRCI V. N.  
SCIENTIFIC REPORTS, vol.6, 2016 (SCI-Expanded)
- XLIV. **Influence of co-culture on osteogenesis and angiogenesis of bone marrow mesenchymal stem cells and aortic endothelial cells**  
Pekozer G. G., KÖSE G., Hasirci V.  
MICROVASCULAR RESEARCH, vol.108, pp.1-9, 2016 (SCI-Expanded)
- XLV. **FLUORIDE-CONTAINING ANTI-CARIES pH-SENSITIVE RELEASE SYSTEM AND ITS EFFECT ON STREPTOCOCCUS MUTANS**  
Polat G. G., Akgun O. M., Simsek B., Saracli M. A., Heper S., Hasirci V.  
FLUORIDE, vol.49, no.4, pp.458-466, 2016 (SCI-Expanded)
- XLVI. **Construction of a patterned hydrogelfibrous mat bilayer structure to mimic choroid and Bruch's membrane layers of retina**  
Komez A., Baran E. T., Erdem U., Hasirci N., HASIRCI V. N.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.104, no.9, pp.2166-2177, 2016 (SCI-Expanded)
- XLVII. **Osteogenic differentiation of adipose derived stem cells on high and low aspect ratio micropatterns**  
Sayin E., Baran E. T., HASIRCI V. N.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.26, no.18, pp.1402-1424, 2015 (SCI-Expanded)
- XLVIII. **Preparation and Characterization of Chitosan and PLGA-Based Scaffolds for Tissue Engineering Applications**  
ENDOĞAN TANIR T., Hasirci V., Hasirci N.  
POLYMER COMPOSITES, vol.36, no.10, pp.1917-1930, 2015 (SCI-Expanded)
- XLIX. **Biocompatibility of Dead Sea Water and retinyl palmitate carrying poly(3-hydroxybutyrate-co-3-hydroxyvalerate) micro/nanoparticles designed for transdermal skin therapy**  
Eke G., Goni-de-Cerio F., Suarez-Merino B., Hasirci N., HASIRCI V. N.  
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.30, no.5, pp.455-471, 2015 (SCI-Expanded)
- L. **Poly(ester-urethane) scaffolds: effect of structure on properties and osteogenic activity of stem cells**  
KIZILTAY A., Marcos-Fernandez A., San Roman J., Sousa R. A., Reis R. L., Hasirci V., Hasirci N.  
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## Refereed Congress / Symposium Publications in Proceedings

- I. **Sıçanlarda siyatik sinir hasarı modelinde, 3B yazıcı ile üretilen polikaprolakton tüpler sinir iyileşmesini arttırdı**  
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