

Prof. Vasif Nejat HASIRCI

Personal Information

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International Researcher IDs

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Education Information

Doctorate, The University Of Reading, Kimya, United Kingdom 1973 - 1976

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1967 - 1971

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Yeni bir polimerizasyon katalizörü olan Luperox (2,5- dimetil 2,5-dihidro-peroksi heksan)'ın polimerizasyon başlatıcısı olarak kullanılması : reaksiyon kinetiği, katalizörün ayrışması ve molekül ağırlığı dağılımı, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 1973

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2018 - Continues

Professor, Middle East Technical University, Biyolojik Bilimler Bölümü, 1989 - 2016

Visiting Lecturer, Northeastern University, Engineering, Chemical Engineering, 1998 - 1999

Associate Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, 1982 - 1989

Visiting Lecturer, Drexel University, Engineering, Materials, 1982 - 1984

Assistant Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, 1976 - 1982

Academic and Administrative Experience

Head of Department, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, 2021 - Continues

Research Institute Director, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering And Natural Sciences,
Biomaterials Research and Application Center , 2020 - Continues
Middle East Technical University, 2012 - Continues

Courses

Advances in Biomaterials, Doctorate, 2023 - 2024
ADVANCED BIOMATERIALS, Doctorate, 2018 - 2019, 2015 - 2016, 2014 - 2015
Bio 321 Bioanalytical Chemistry, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Fundamentals of Polymeric Biomaterials, Postgraduate, 2018 - 2019
Bio 584 Advances in Biomaterials, Doctorate, 2017 - 2018, 2016 - 2017
Bio 415 Physical Chemistry for Biological Sciences, Undergraduate, 2017 - 2018
Bio 514 Biomaterials, Doctorate, 2017 - 2018, 2016 - 2017
BiO 415 Physical Chemistry for Life Sciences, Doctorate, 2016 - 2017
bioanalytical chemistry, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011,
2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002,
2000 - 2001

Advising Theses

Yücel D., Hasırcı V. N., Development of In Vitro Three Dimensional Blood-Brain Barrier Model , Doctorate,
G.Ervin(Student), Continues
Yücel D., Hasırcı V. N., Development of 3D-bioprinted glioblastoma model to mimic in vivo tumor microenvironment,
Doctorate, Ş.Işık(Student), Continues
Hasırcı V. N., Kenar H., A tissue engineered in vitro blood air barrier model to study respiratory viral infections,
Doctorate, N.SEVİNÇ(Student), Continues
Hasırcı V. N., Keskin D., INVESTIGATING THE CONTRIBUTION OF MACROPHAGES, HUVEC CELLS, TOPOGRAPHICAL CUES,
AND SCAR INHIBITING ENZYMES ON NERVE REGENERATION., Doctorate, D.GÖKSU(Student), Continues
Yücel D., Hasırcı V. N., Development of a 3D Bioprinted Scaffold for the Repair of Glial Scar Model in Chronic Spinal Cord
Injuries, Postgraduate, A.Akahlı(Student), Continues
Kenar H., Hasırcı V. N., Development of a Tissue Scaffold from Human Placental Membrane for use in Pediatric Heart
Surgery, Postgraduate, B.Uzunkaya(Student), 2023
Yücel D., Hasırcı V. N., Doku Mühendisliğiyle Ön Çapraz Bağ (ÖÇB) Elektroçirilmiş İmplant Hazırlanması, Postgraduate,
S.Ege(Student), 2023
Yücel D., Hasırcı V. N., Construction of Bifunctional Substitute For Osteochondral Tissue Engineering, Postgraduate,
D.Başöz(Student), 2022
Hasırcı V. N., Development of a Composite Guide for Peripheral Nerve Regeneration, Doctorate,
D.ARSLANTUNALI(Student), 2022
Hasırcı V. N., PATIENT-SPECIFIC ORTHOPEDIC IMPLANT DESIGN AND PRODUCTION WITH TISSUE ENGINEERING
METHOD, Doctorate, S.BÜYÜKSUNGUR(Student), 2019
Hasırcı V. N., Design and in vitro Testing of a Peripheral Nerve Guide, Postgraduate, D.GÖKSU(Student), 2019
Hasırcı V. N., Development of a bone tumor model under in vitro conditions, Doctorate, A.KÖMEZ(Student), 2019
Hasırcı V. N., Yücel D., A BIO AND SYNTHETIC POLYMER BASED NERVE GUIDE TESTED UNDER IN VITRO AND IN VIVO
CONDITIONS, Doctorate, T.DURSUN(Student), 2019
Hasırcı V. N., A polymeric implant for lumbar bone defects, Postgraduate, B.Büşra(Student), 2015
Hasırcı V. N., In vitro characterization and nuclear delivery of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid)
(PHBV) based nanoparticles, Postgraduate, A.Şahin(Student), 2015

Jury Memberships

Award, ODTÜ Parlar Vakfı Araştırma Teşvik Ödülü , METU Parlar Foundation, October, 2023

Award, BAGEP Bilim Akademisi Genç BA , Acibadem Mehmet Ali Aydınlar University, March, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Acibadem Mehmet Ali Aydınlar University, March, 2023

Associate Professor Exam, Associate Professor Exam, Acibadem Mehmet Ali Aydınlar University, December, 2022

Associate Professor Exam, Associate Professor Exam, Acibadem Mehmet Ali Aydınlar University, June, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of a Tri-Layered Vascular Construct and In Vitro Evaluation of Endothelization**
Kole G. E., Hasirci V. N., Yucel D.
MACROMOLECULAR BIOSCIENCE, vol.24, no.5, 2024 (SCI-Expanded)
- II. **In vitro cytotoxicity, corrosion and antibacterial efficiencies of Zn doped hydroxyapatite coated Ti based implant materials**
Buyuksungur S., HURİ P., Schmidt J., Pana I., Dinu M., Vitelaru C., Kiss A. E., Tamay D. G., HASIRCI V. N., Vladescu A., et al.
CERAMICS INTERNATIONAL, vol.49, no.8, pp.12570-12584, 2023 (SCI-Expanded)
- III. **Nuclear Deformability of Breast Cells Analyzed from Patients with Malignant and Benign Breast Diseases**
Antmen E., Ermis M., Kuren O., Beksac K., Irkkan C., HASIRCI V. N.
ACS BIOMATERIALS SCIENCE & ENGINEERING, vol.9, no.3, pp.1629-1643, 2023 (SCI-Expanded)
- IV. **Zn doped CaP coatings used for controlling the degradation rate of MgCa1 alloy: <i>In vitro</i> 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)
- V. **Injectable methacrylated gelatin/thiolated pectin hydrogels carrying melatonin/tideglusib-loaded core/shell PMMA/silk fibroin electrospun fibers for vital pulp regeneration**
Atila D., KESKİN D., Lee Y., Lin F., HASIRCI V. N., TEZCANER A.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.222, 2023 (SCI-Expanded)
- VI. **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)
- VII. **Fabrication of a 3D Printed PCL Nerve Guide: In Vitro and In Vivo Testing**
Dursun Usal T., Yesiltepe M., Yucel D., Sara M. Y., Hasirci V. N.
MACROMOLECULAR BIOSCIENCE, vol.22, no.3, 2022 (SCI-Expanded)
- VIII. **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)
- IX. **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. N., HASIRCI N.
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.1, pp.104-122, 2022 (SCI-Expanded)
- X. **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. N.

MICROMACHINES, vol.13, no.1, 2022 (SCI-Expanded)

- XI. **The role of biomaterials and scaffolds in immune responses in regenerative medicine: macrophage phenotype modulation by biomaterial properties and scaffold architectures**
ANTMEN ALTUNSOY E., Vrana N. E., HASIRCI V. N.
BIOMATERIALS SCIENCE, vol.9, no.24, pp.8090-8110, 2021 (SCI-Expanded)
- XII. **3D printed hybrid bone constructs of PCL and dental pulp stem cells loaded GelMA**
Buyuksungur S., HASIRCI V. N., HASIRCI N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.109, no.12, pp.2425-2437, 2021 (SCI-Expanded)
- XIII. **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. N.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.8, 2021 (SCI-Expanded)
- XIV. **Micropatterned Surfaces Expose the Coupling between Actin Cytoskeleton-Lamin/Nesprin and Nuclear Deformability of Breast Cancer Cells with Different Malignancies**
ANTMEN ALTUNSOY E., Demirci U., HASIRCI V. N.
ADVANCED BIOLOGY, vol.5, no.1, 2021 (SCI-Expanded)
- XV. **3D cellular alignment and biomimetic mechanical stimulation enhance human adipose-derived stem cell myogenesis**
Ergene E., Bilecen D. S., KAYA B., HURİ P., HASIRCI V. N.
BIOMEDICAL MATERIALS, vol.15, no.5, 2020 (SCI-Expanded)
- XVI. **A two-compartment bone tumor model to investigate interactions between healthy and tumor cells**
Komez A., BÜYÜKSUNGUR A., ANTMEN ALTUNSOY E., Swieszkowski W., HASIRCI N., HASIRCI V. N.
BIOMEDICAL MATERIALS, vol.15, no.3, 2020 (SCI-Expanded)
- XVII. **The effect of introduction of filament shift on degradation behaviour of PLGA- and PLCL-based scaffolds fabricated via additive manufacturing**
Walejewska E., Idaszek J., Heljak M., Chlanda A., Choinska E., Hasirci V. N., Swieszkowski W.
POLYMER DEGRADATION AND STABILITY, vol.171, 2020 (SCI-Expanded)
- XVIII. **Cell loaded 3D bioprinted GelMA hydrogels for corneal stroma engineering**
Kilic Bektas C., Hasirci V. N.
Biomaterials Science, vol.8, no.1, pp.438-449, 2020 (SCI-Expanded)
- XIX. **Methacrylated gelatin hydrogels as corneal stroma substitutes: in vivo study**
Bektas C. K., Burcu A., Gedikoglu G., Telek H. H., Ornek F., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.30, no.18, pp.1803-1821, 2019 (SCI-Expanded)
- XX. **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. N.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.183, 2019 (SCI-Expanded)
- XXI. **Amplification of nuclear deformation of breast cancer cells by seeding on micropatterned surfaces to better distinguish their malignancies**
Hasirci V. N.
Colloids And Surfaces B-Biointerfaces, vol.183, no.110402, pp.1-12, 2019 (SCI-Expanded)
- XXII. **Anatomical meniscus construct with zone specific biochemical composition and structural organization**
Bahcecioglu G., Bilgen B., HASIRCI N., HASIRCI V. N.
BIOMATERIALS, vol.218, 2019 (SCI-Expanded)
- XXIII. **3D and 4D Printing of Polymers for Tissue Engineering Applications**
Tamay D. G., Usal T. D., Alagoz A. S., Yucel D., Hasirci N., Hasirci V. N.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (SCI-Expanded)
- XXIV. **Square prism micropillars on poly(methyl methacrylate) surfaces modulate the morphology and differentiation of human dental pulp mesenchymal stem cells**
Hasturk O., ERMİŞ ŞEN M., Demirci U., HASIRCI N., HASIRCI V. N.

COLLOIDS AND SURFACES B-BIOINTERFACES, vol.178, pp.44-55, 2019 (SCI-Expanded)

- XXV. **An estradiol releasing, proangiogenic hydrogel as a candidate material for use in soft tissue interposition**
MANGIR N., Eke G., HASIRCI N., Chapple C. R., Hasirci V. N., MacNeil S.
NEUROUROLOGY AND URODYNAMICS, vol.38, no.5, pp.1195-1202, 2019 (SCI-Expanded)
- XXVI. **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)
- XXVII. **Microfibrous scaffolds from poly(l-lactide-co-ε-caprolactone) blended with xeno-free collagen/hyaluronic acid for improvement of vascularization in tissue engineering applications.**
Kenar H., Ozdogan C., Dumlu C., Doger E., Kose G., Hasirci V. N.
Materials science & engineering. C, Materials for biological applications, vol.97, pp.31-44, 2019 (SCI-Expanded)
- XXVIII. **Engineered natural and synthetic polymer surfaces induce nuclear deformation in osteosarcoma cells**
Antmen E., Ermis 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)
- XXIX. **Effect of chemical structure on properties of polyurethanes: Temperature responsiveness and biocompatibility**
Komez A., Buyuksungur S., Hasirci V. N., HASIRCI N.
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.33, no.5, pp.479-497, 2018 (SCI-Expanded)
- XXX. **Micro and Nanofabrication methods to control cell-substrate interactions and cell behavior: A review from the tissue engineering perspective**
Ermis M., Antmen E., Hasirci V. N.
BIOACTIVE MATERIALS, vol.3, no.3, pp.355-369, 2018 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces**
Hasturk O., ERMİŞ M., Demirci U., HASIRCI N., HASIRCI V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.29, no.5, 2018 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **PCL-TCP wet spun scaffolds carrying antibiotic-loaded microspheres for bone tissue engineering**
Malikmammadov E., Tanir T. E., KIZILTAY A., HASIRCI V. N., HASIRCI N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, no.7-9, pp.805-824, 2018 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **A bilayer scaffold prepared from collagen and carboxymethyl cellulose for skin tissue engineering applications**
Bektas C. K., Kimiz I., Sendemir A., Hasirci V. N., HASIRCI N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, no.14, pp.1764-1784, 2018 (SCI-Expanded)
- XXXIX. **PCL and PCL-based materials in biomedical applications**
Malikmammadov E., Tanir T. E., KIZILTAY A., Hasirci V. N., HASIRCI N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, no.7-9, pp.863-893, 2018 (SCI-Expanded)
- XL. **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)
- XLI. **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. **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)
- 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. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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. N., HASIRCI N.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.9, no.8, pp.930-942, 2015 (SCI-Expanded)
- XLVIII. **pH-Responsive Nano Carriers for Doxorubicin Delivery**
Bagherifam S., Skjeldal F. M., Griffiths G., Maelandsmo G. M., Engebraten O., Nystrom B., Hasirci V. N., HASIRCI N.
PHARMACEUTICAL RESEARCH, vol.32, no.4, pp.1249-1263, 2015 (SCI-Expanded)
- XLIX. **Tissue engineering of oral mucosa: a shared concept with skin**
Kinikoglu B., Damour O., Hasirci V. N.
JOURNAL OF ARTIFICIAL ORGANS, vol.18, no.1, pp.8-19, 2015 (SCI-Expanded)
- L. **Poly(sebacic anhydride) nanocapsules as carriers: effects of preparation parameters on properties and release of doxorubicin**
Bagherifam S., Griffiths G. W., Maelandsmo G. M., Nystrom B., Hasirci V. N., HASIRCI N.
JOURNAL OF MICROENCAPSULATION, vol.32, no.2, pp.166-174, 2015 (SCI-Expanded)
- LI. **Construction of a collagen-based, split-thickness cornea substitute**
Acun A., HASIRCI V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.25, no.11, pp.1110-1132, 2014 (SCI-Expanded)
- LII. **Systematically organized nanopillar arrays reveal differences in adhesion and alignment properties of BMSC and Saos-2 cells**

- ÖZÇELİK H. U., Padeste C., Hasirci V. N.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.119, pp.71-81, 2014 (SCI-Expanded)
- LIII. **In vitro and transdermal penetration of PHBV micro/nanoparticles**
Eke G., Kuzmina A. M., Goreva A. V., Shishatskaya E. I., HASIRCI N., HASIRCI V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.25, no.6, pp.1471-1481, 2014 (SCI-Expanded)
- LIV. **A multilayer tissue engineered meniscus substitute**
Halili A. N., HASIRCI N., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.25, no.4, pp.1195-1209, 2014 (SCI-Expanded)
- LV. **Poly(epsilon-caprolactone) Composite Scaffolds Loaded with Gentamicin-Containing beta-Tricalcium Phosphate/Gelatin Microspheres for Bone Tissue Engineering Applications**
Sezer U. A., Arslantunali D., Aksoy E. A., Hasirci V. N., HASIRCI N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.8, 2014 (SCI-Expanded)
- LVI. **Multiwalled CNT-pHEMA composite conduit for peripheral nerve repair**
Arslantunali D., Budak G., Hasirci V. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.102, no.3, pp.828-841, 2014 (SCI-Expanded)
- LVII. **Chitosan-based wet-spun scaffolds for bioactive agent delivery**
Ucar S., Yilgor P., Hasirci V. N., HASIRCI N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, no.5, pp.3759-3769, 2013 (SCI-Expanded)
- LVIII. **A biomimetic growth factor delivery strategy for enhanced regeneration of iliac crest defects**
Huri P. Y., Huri G., Yasar U., UÇAR Y., DİKMEN N., HASIRCI N., Hasirci V. N.
BIOMEDICAL MATERIALS, vol.8, no.4, 2013 (SCI-Expanded)
- LIX. **Poly(epsilon-caprolactone) composites containing gentamicin-loaded beta-tricalcium phosphate/gelatin microspheres as bone tissue supports**
Sezer U. A., Aksoy E. A., Hasirci V. N., HASIRCI N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, no.3, pp.2132-2139, 2013 (SCI-Expanded)
- LX. **Effect of low level laser therapy and zoledronate on the viability and ALP activity of Saos-2 cells**
Bayram H., Kenar H., Tasar F., HASIRCI V. N.
INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol.42, no.1, pp.140-146, 2013 (SCI-Expanded)
- LXI. **Porous Agarose-Based Semi-IPN Hydrogels: Characterization and Cell Affinity Studies**
Vardar E., Vert M., Coudane J., HASIRCI V. N., HASIRCI N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.23, no.18, pp.2273-2286, 2012 (SCI-Expanded)
- LXII. **Hydroxyapatite nanorod-reinforced biodegradable poly(L-lactic acid) composites for bone plate applications**
Aydin E., Planell J. A., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.22, no.11, pp.2413-2427, 2011 (SCI-Expanded)
- LXIII. **The influence of elastin-like recombinant polymer on the self-renewing potential of a 3D tissue equivalent derived from human lamina propria fibroblasts and oral epithelial cells**
Kinikoglu B., Carlos Rodriguez-Cabello J., Damour O., Hasirci V. N.
BIOMATERIALS, vol.32, no.25, pp.5756-5764, 2011 (SCI-Expanded)
- LXIV. **A 3D aligned microfibrillar myocardial tissue construct cultured under transient perfusion.**
Kenar H., Kose G., Toner M., Kaplan D., Hasirci V. N.
Biomaterials, vol.32, pp.5320-9, 2011 (SCI-Expanded)
- LXV. **A smart bilayer scaffold of elastin-like recombinamer and collagen for soft tissue engineering**
Kinikoglu B., Carlos Rodriguez-Cabello J., Damour O., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.22, no.6, pp.1541-1554, 2011 (SCI-Expanded)
- LXVI. **Effect of scaffold architecture and BMP-2/BMP-7 delivery on in vitro bone regeneration**
Yilgor P., Sousa R. A., Reis R. L., HASIRCI N., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.21, no.11, pp.2999-3008, 2010 (SCI-Expanded)
- LXVII. **The role of multiple toll-like receptor signalling cascades on interactions between biomedical polymers and dendritic cells**

- Shokouhi B., Coban C., Hasirci V. N., Aydin E., Dhanasingh A., Shi N., Koyama S., Akira S., Zenke M., Sechi A. S.
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- XVI. **Biomedical Application of Modified PCL Fibers**
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- XVII. **NUCLEUS DEFORMATION ON MICROPATTERNED SUBSTRATES: A TOOL TO QUANTIFY NUCLEAR DEFORMABILITY OF CANCER CELLS**
ERMİŞ ŞEN M., AKKAYNAK D., CHEN P., DEMİRCİ U., HASIRCI V. N.
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- XVIII. **Human Corneal Keratocytes Loaded Methacrylated Gelatin Hydrogels as a Model Corneal Stroma**
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- XXI. **Targeted delivery of PEI:DNAoligo complexes with PLGA nanocapsules to bone tissue**
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- 21st International Biomedical Science and Technology Symposium (BIOMED 2015) - East West Asia Biomaterials (EWAB), Antalya, Turkey, 21 - 24 October 2015
- XXX. **Controlled Doxorubicin Delivery from Photoresponsive Liposomes Carrying Vitamin A Derivatives**
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- XXXI. **Delivery of Drugs into Cells with PHBV Nanoparticles**
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- XXXIII. **Construction of a Retina Substitute by Using Tissue Engineering Approach**
Kömez A., Baran E. T., HASIRCI V. N.
East West Asia Biomaterials Symposium, 21 October 2015
- XXXIV. **Open Source 3D Printed PHA PLA Construct for Bone Tissue Engineering**
Alagöz A. S., HASIRCI N., HASIRCI V. N.
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- XXXVIII. **Collagen and Carboxymethyl Cellulose Bilayers for Skin Tissue Repair**
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- Yücel D., Hasirci V. N., Kenar H., Kocaoğlu B., TUBITAK Project, Rotator Manşet Yırtıklarında Kemik-Tendon-Çizgili Kas

Dokularının Tedavisine Yönelik Doku Yaması Geliştirilmesi ve İn Vivo Çalışması, 2024 - 2026

Yücel D., Hasırcı V. N., Işık Ş., TÜBİTAK Project, In Vitro Glioblastoma Modeli Oluşturulması Ve Doğrulanması, 2024 - 2025

Yücel D., Kenar H., Hasırcı V. N., TÜBİTAK Project, Covid-19 Araştırmaları için Pulmoner Kan-Hava Bariyer Modelinin Geliştirilmesi ve Terapötik İlaç Taranması, 2021 - 2025

Hasırcı V. N., Hasırcı N., Yücel D., Çelebi A. R. C., Arslantunali Şahin D., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), 3B Basımla Üretilen Yapay Korneanın İn Vivo Uygulanması ve Translasyonu, 2022 - 2024

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Hasırcı V. N., Kenar H., Yücel D., Citoğlu S., Other International Funding Programs, Pulmonary blood-air barrier model to study Covid-19 and screening of therapeutics, 2021 - 2024

Yücel D., Arslantunali Şahin D., Hasırcı N., Hasırcı V. N., TÜBİTAK Project, Mikrodesezli Yüzey Üzerinde Sinir Doku Modeli Oluşturulması, Akson Yönlendirme ve Sinir Hasarı İyileşme Süreçlerinin İncelenmesi, 2021 - 2024

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Hasırcı V. N., Kenar H., Yeşilyurt A. E., Project Supported by Higher Education Institutions, Elektro Eğirme Yöntemiyle Üretilen Hizalanmış Hücre İskelesi için Silindirik Toplayıcı Tasarımı ve Üretimi, 2020 - 2021

Huri G., Hasırcı V. N., Hasırcı N., Huri P., Horizon Europe Project, CoatDegraBac: Biodegradable and non-biodegradable orthopedic implants with bactericidal coatings and controllable degradability, 2019 - 2021

Yücel D., Kenar H., Hasırcı V. N., TÜBİTAK Project, Doku Mühendisliği Yöntemleriyle Katmanlı, Tübüler, Küçük-Orta Çaplı Damar Dokusu Geliştirilmesi, 2018 - 2021

Patent

Hasırcı V. N., Hasırcı N., SERVİKAL VE LUMBAR DİSK HERNİSİNİN TEDAVİSİNDE KULLANILMAK ÜZERE GELİŞTİRİLEN YENİ BİR PROTEZ MALZEMESİ, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2017 09196 B , Standard Registration, 2022

Hasırcı V. N., Demirci U., Ermiş Şen M., Akkaynak D., A micropatterned nuclear deformation based cellular diagnostic system, Patent, CHAPTER A Human Needs, The Invention Registration Number: 16/346,197 , Standard Registration, 2019

Hasırcı V. N., A NANO/MICROPATTERNED NUCLEAR DEFORMATION BASED CELLULAR DIAGNOSTIC SYSTEM, Patent, CHAPTER A Human Needs, The Invention Recourse Number: EP3519553 , Standard Registration, 2017

Hasırcı V. N., A GRID CONTAINING SYSTEMATICALLY DISTRIBUTED MICRO- NANOPILLAR COATED FIELDS TO CONTROL CELL ADHESION , Patent, CHAPTER A Human Needs, The Invention Recourse Number: WO2013162482A1 2013-10-31 , Standard Registration, 2012

Hasırcı V. N., STACKED, PATTERNED BIOMATERIALS AND/OR TISSUE ENGINEERING SCAFFOLDS, Patent, CHAPTER A Human Needs, The Invention Recourse Number: WO2008115160A1 2008-09-25 , 2007

Hasırcı V. N., POLY-4-HYDROXYBUTYRATE MATRICES FOR SUSTAINED DRUG DELIVERY, Patent, CHAPTER A Human Needs, The Invention Recourse Number: WO2005007195A1 2005-01-27 , 2005

Hasırcı V. N., Drug delivery composition , Patent, CHAPTER A Human Needs, The Invention Recourse Number: US6913760B2 , 2002

Activities in Scientific Journals

Open Exploration Publishing, Assistant Editor/Section Editor, 2022 - Continues

FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, Assistant Editor/Section Editor, 2021 - Continues

BIOACTIVE MATERIALS, Committee Member, 2019 - Continues

Nanomedicine, Committee Member, 2015 - Continues

Journal Of Biomaterials Science-Polymer Edition, Committee Member, 2010 - Continues

Biomaterials, Committee Member, 1990 - Continues

Memberships / Tasks in Scientific Organizations

European Symposium on Biopolymer, Member of Science Committee, 2023 - Continues, Czech Republic

European Society for Biomaterials, Honorary Member, 2016 - Continues, Portugal

Fellow of Royal Society of Chemistry (FRSC), Honorary Member, 2015 - Continues, England

FELLOW OF THE INTERNATIONAL UNION OF SOCIETIES OF BIOMATERIAL SCIENCE AND ENGINEERING (IUSBSE),

Member, 2012 - Continues, United States Of America

Biomaterials and Tissue Engineering Society (Turkey), Honorary Member, 2008 - Continues, Turkey

American Chemical Society, Member, 2000 - Continues, United States Of America

Science Academy (Turkey), Member, 2000 - Continues, Turkey

The 32nd Annual European Society for biomaterials Conference Bordeaux France, Member of Science Committee, 2022 - 2022, France

Scientific Refereeing

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Universitat de Barcelona, Spain, February 2024

Project Supported by Public Organizations in Other Countries, Chu-Toulouse, France, June 2023

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Awards

Hasırcı V. N., Hasırcı N., METU Prof. Dr. Mustafa Parlar Graduate Thesis of the Year for PhD Thesis of G. Bahcecioglu , Odtü Prof. Dr. Mustafa Parlar Vakfı, December 2019

Hasırcı V. N., Seal of Excellence H2020 SME 2018 Projectc Patient Specific 3D Printed Biodegradable and Controlled Drug Releasing Regenerative Skull, Jaw and Face Bone Implant (w/BTec) (Proposal No: 890106 BonePrintTech), European Commission, October 2019

Hasırcı V. N., Honorary member, European Society For Biomaterials, September 2018

Hasırcı V. N., Sedat Simavi Science Award, Türkiye Gazeteciler Cemiyeti , December 2017

Hasırcı V. N., Fellow of Science Academy, Bilim Akademisi, January 2014

Hasırcı V. N., Fellowship, International Union Of Societies Biomaterials Science And Engineering , September 2012