Prof. Vasıf Nejat HASIRCI

Personal Information

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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 Aydinlar 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

Middle East Technical University, 2012 - Continues

Courses

ADVANCED BİOMATERİALS, 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
Bi0 415 Physical Chemistry for Life Sciences, Doctorate, 2016 - 2017
Physical chemistry for biological sciences, 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
Biomaterials BIO 514, Doctorate, 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
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

Hasirci 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
Hasırcı V. N., Kenar H., A tissue engineered in vitro blood air barrier model to study respiratory viral infections, Doctorate, N.SEVİNÇ(Student), Continues
Hasirci V. N., Yücel D., 3D Printed Artificial Cornea , Doctorate, A.Rıza(Student), Continues
Hasirci V. N., Development of a Composite Guide for Peripheral Nerve Regeneration, Doctorate, D.ARSLANTUNALI(Student), 2022
Hasırcı V. N., A BIO AND SYNTHETIC POLYMER BASED NERVE GUIDE TESTED UNDER IN VITRO AND IN VIVO CONDITIONS, Doctorate, T.DURSUN(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., PATIENT-SPECIFIC ORTHOPEDIC IMPLANT DESIGN AND PRODUCTION WITH TISSUE ENGINEERING METHOD, Doctorate, S.BÜYÜKSUNGUR(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

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Acibadem Mehmet Ali Aydinlar University, March, 2023
Associate Professor Exam, Associate Professor Exam, Acibadem Mehmet Ali Aydinlar University, December, 2022
Associate Professor Exam, Associate Professor Exam, Acibadem Mehmet Ali Aydinlar 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, 2023 (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: 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)

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. **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)

XII. **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)

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. **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)

XVIII. **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)

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 micropattemed 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**
Hasırcı 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., Hasırcı N., Hasirci V. N.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (SCI-Expanded)

XXIV. **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)

XXV. **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)

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. **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)

XXX. **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)

XXXI. **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)

XXXII. **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)

XXXIII. **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)

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. **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)

XXXVII. **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)

XXXVIII. **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)

XXXIX. **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)

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. **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)

XLII. **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)

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. **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)

LV. **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)

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 microfibrous 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.
BIOMATERIALS, vol.31, no.22, pp.5759-5771, 2010 (SCI-Expanded)

LXVIII. **Sequential BMP-2/BMP-7 delivery from polyester nanocapsules**
Yilgor P., HASIRCI N., HASIRCI V. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.93A, no.2, pp.528-536, 2010 (SCI-Expanded)

LXIX. **Polyester based nerve guidance conduit design**
Yucel D., Kose G. T., Hasirci V. N.
BIOMATERIALS, vol.31, no.7, pp.1596-1603, 2010 (SCI-Expanded)

LXX. **Topographically induced self-deformation of the nuclei of cells: dependence on cell type and proposed mechanisms**
Davidson P. M., Fromigue O., Marie P. J., Hasirci V. N., Reiter G., Anselme K.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.21, no.3, pp.939-946, 2010 (SCI-Expanded)

LXXI. **Design of a 3D aligned myocardial tissue construct from biodegradable polyesters.**

Kenar H., Kose G., Hasirci V. N.
Journal of materials science. Materials in medicine, vol.21, pp.989-97, 2010 (SCI-Expanded)

LXXII. **Reconstruction of a full-thickness collagen-based human oral mucosal equivalent**
Kinikoglu B., Auxenfans C., Pierrillas P., Justin V., Breton P., Burillon C., Hasirci V. N., Damour O.
BIOMATERIALS, vol.30, no.32, pp.6418-6425, 2009 (SCI-Expanded)

LXXIII. **Dynamic cell culturing and its application to micropatterned, elastin-like protein-modified poly(N-isopropylacrylamide) scaffolds**
Ozturk N., Girotti A., Kose G. T., Rodriguez-Cabello J. C., Hasirci V. N.
BIOMATERIALS, vol.30, no.29, pp.5417-5426, 2009 (SCI-Expanded)

LXXIV. **Microstructured Surfaces Cause Severe but Non-Detrimental Deformation of the Cell Nucleus**
Davidson P. M., Ozcelik H., Hasirci V. N., Reiter G., Anselme K.
ADVANCED MATERIALS, vol.21, no.35, pp.3586-3591, 2009 (SCI-Expanded)

LXXV. **Incorporation of a sequential BMP-2/BMP-7 delivery system into chitosan-based scaffolds for bone tissue engineering**
Yilgor P., Tuzlakoglu K., Reis R. L., HASIRCI N., Hasirci V. N.
BIOMATERIALS, vol.30, no.21, pp.3551-3559, 2009 (SCI-Expanded)

LXXVI. **Sequential growth factor delivery from complexed microspheres for bone tissue engineering**
Basmanav F. B., Kose G. T., Hasirci V. N.
BIOMATERIALS, vol.29, no.31, pp.4195-4204, 2008 (SCI-Expanded)

LXXVII. **Chemical and topographical modification of PHBV surface to promote osteoblast alignment and confinement.**
Kenar H., Kocabas A., Aydinli A., Hasirci V. N.
Journal of biomedical materials research. Part A, vol.85, pp.1001-10, 2008 (SCI-Expanded)

LXXVIII. **Contact guidance enhances the quality of a tissue engineered corneal stroma**
Vrana E., Builles N., Hindie M., Damour O., Aydinli A., HASIRCI V. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.84A, no.2, pp.454-463, 2008 (SCI-Expanded)

LXXIX. **A novel construct as a cell carrier for tissue engineering**
Zorlutuna P., TEZCANER A., HASIRCI V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.19, no.3, pp.399-410, 2008 (SCI-Expanded)

LXXX. **Effect of human corneal keratocytes and retinal pigment epithelial cells on the mechanical properties of micropatterned collagen films**
Vrana N. E., Elsheikh A., Builles N., Damour O., Hasirci V. N.
BIOMATERIALS, vol.28, no.29, pp.4303-4310, 2007 (SCI-Expanded)

LXXXI. **Influence of keratocytes and retinal pigment epithelial cells on the mechanical properties of polyester-based tissue engineering micropatterned films**
Zorlutuna P., Builles N., Damour O., Elsheikh A., Hasirci V. N.
BIOMATERIALS, vol.28, no.24, pp.3489-3496, 2007 (SCI-Expanded)

LXXXII. **Construction of a choline biosensor through enzyme immobilization on a poly(2-hydroxyethyl methacrylate)-grafted Teflon film**
Yucel D., Ozer N., Hasirci V. N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.5, pp.3469-3477, 2007 (SCI-Expanded)

LXXXIII. **EDC/NHS cross-linked collagen foams as scaffolds for artificial corneal stroma**
Vrana N. E., Builles N., Kocak H., Gulay P., Justin V., Malbouyres A., Ruggiero F., Damour O., HASIRCI V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.18, no.12, pp.1527-1545, 2007 (SCI-Expanded)

LXXXIV. **Cornea engineering on polyester carriers**
Zorlutuna P., TEZCANER A., Kiyat I., Aydinli A., Hasirci V. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.79A, no.1, pp.104-113, 2006 (SCI-Expanded)

LXXXV. **Novel surface patterning approaches for tissue engineering and their effect on cell behavior.**
Hasirci V. N., Kenar H.
Nanomedicine (London, England), vol.1, pp.73-90, 2006 (SCI-Expanded)

LXXXVI. **Tissue engineering of bone on micropatterned biodegradable polyester films.**

Kenar H., Köse G., Hasirci V. N.
Biomaterials, vol.27, pp.885-95, 2006 (SCI-Expanded)

LXXXVII. **Special issue on nanobiomaterials - Foreword**
Petrak K., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.17, no.11, pp.1207-1208, 2006 (SCI-Expanded)

LXXXVIII. **Nanobiomaterials: a review of the existing science and technology, and new approaches**
Hasirci V. N., Vrana E., Zorlutuna P., Ndreu A., Yilgor P., Basmanav F. B., Aydin E.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.17, no.11, pp.1241-1268, 2006 (SCI-Expanded)

LXXXIX. **Tissue engineered cartilage on collagen and PHBV matrices**
Kose G., Korkusuz F., ÖZKUL A., Soysal Y., Ozdemir T., Yildiz C., Hasirci V. N.
BIOMATERIALS, vol.26, no.25, pp.5187-5197, 2005 (SCI-Expanded)

XC. **Collagen-chondroitin sulfate-based PLLA-SAIB-coated rhBMP-2 delivery system for bone repair**
KESKİN D., TEZCANER A., Korkusuz P., Korkusuz F., Hasirci V. N.
BIOMATERIALS, vol.26, no.18, pp.4023-4034, 2005 (SCI-Expanded)

XCI. **Bone tissue engineering on patterned collagen films: an in vitro study**
Ber S., Kose G., Hasirci V. N.
BIOMATERIALS, vol.26, no.14, pp.1977-1986, 2005 (SCI-Expanded)

XCII. **A review of scanning probe microscopy investigations of liposome-DNA complexes**
Mozafari M., Reed C., Rostron C., Hasirci V. N.
JOURNAL OF LIPOSOME RESEARCH, vol.15, pp.93-107, 2005 (SCI-Expanded)

XCIII. **Hydroxyapatite reinforced poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) based degradable composite bone plate**
Coskun S., Korkusuz F., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.16, no.12, pp.1485-1502, 2005 (SCI-Expanded)

XCIV. **In vivo tissue engineering of bone using poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) and collagen scaffolds**
Kose G., KORKUSUZ F., Korkusuz P., Hasirci V. N.
TISSUE ENGINEERING, vol.10, pp.1234-1250, 2004 (SCI-Expanded)

XCV. **UV-induced drug release from photoactive REV sensitized by suprofen**
Cirli O., Hasirci V. N.
JOURNAL OF CONTROLLED RELEASE, vol.96, no.1, pp.85-96, 2004 (SCI-Expanded)

XCVI. **Bone generation on PHBV matrices: an in vitro study**
Kose G., Korkusuz F., Korkusuz P., Purali N., ÖZKUL A., Hasirci V. N.
BIOMATERIALS, vol.24, no.27, pp.4999-5007, 2003 (SCI-Expanded)

XCVII. **Antihyperalgesic effect of simultaneously released hydromorphone and bupivacaine from polymer fibers in the rat chronic constriction injury model**
Hasirci V. N., Bonney I., Goudas L., Shuster L., Carr D., Wise D.
LIFE SCIENCES, vol.73, no.26, pp.3323-3337, 2003 (SCI-Expanded)

XCVIII. **Retinal pigment epithelium cell culture on surface modified poly(hydroxybutyrate-co-hydroxyvalerate) thin films**
TEZCANER A., Bugra K., Hasirci V. N.
BIOMATERIALS, vol.24, no.25, pp.4573-4583, 2003 (SCI-Expanded)

XCIX. **Solid-phase enzyme modification via affinity chromatography**
Baran E., Ozer N., Hasirci V. N.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.794, no.2, pp.311-322, 2003 (SCI-Expanded)

C. **Antinociceptive effects of hydromorphone, bupivacaine and biphalin released from PLGA polymer after intrathecal implantation in rats**
Sendil D., Bonney I., Carr D., Lipkowski A., Wise D., Hasirci V. N.
BIOMATERIALS, vol.24, no.11, pp.1969-1976, 2003 (SCI-Expanded)

CI. **Macroporous poly(3-hydroxybutyrate-co-3-hydroxyvalerate) matrices for bone tissue engineering**

Köse G., Kenar H., Hasirci N., Hasirci V. N.
BIOMATERIALS, vol.24, no.11, pp.1949-1958, 2003 (SCI-Expanded)

CII. **Oxygen plasma modification of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) film surfaces for tissue engineering purposes**
Hasirci V. N., Tezcaner A., Hasirci N., Suzer S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.87, no.8, pp.1285-1289, 2003 (SCI-Expanded)

CIII. **Poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) based tissue engineering matrices**
Kose G., Ber S., KORKUSUZ F., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.14, no.2, pp.121-126, 2003 (SCI-Expanded)

CIV. **In vivo pain relief effectiveness of an analgesic-anesthetic carrying biodegradable controlled release rod systems**
Sendil-Keskin D., Altunay H., Wise D., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.14, no.6, pp.497-514, 2003 (SCI-Expanded)

CV. **In vivo half life of nanoencapsulated L-asparaginase**
Baran E., Ozer N., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.13, no.12, pp.1113-1121, 2002 (SCI-Expanded)

CVI. **Poly(hydroxybutyrate-co-hydroxyvalerate) nanocapsules as enzyme carriers for cancer therapy: an in vitro study**
Baran E., Ozer N., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.19, no.3, pp.363-376, 2002 (SCI-Expanded)

CVII. **In vitro antibiotic release from poly(3-hydroxybutyrate-co-3-hydroxyvalerate) rods**
Gursel I., Yagmurlu F., Korkusuz F., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.19, no.2, pp.153-164, 2002 (SCI-Expanded)

CVIII. **PLGA bone plates reinforced with crosslinked PPF**
Hasirci V. N., Litman A., Trantolo D., Gresser J., Wise D., Margolis H.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.13, no.2, pp.159-167, 2002 (SCI-Expanded)

CIX. **Assessment of biodegradable controlled release rod systems for pain relief applications**
Sendil D., Wise D., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.13, no.1, pp.1-15, 2002 (SCI-Expanded)

CX. **Vancomycin release from poly(D,L-lactide) and poly(lactide-co-glycolide) disks**
Ozalp Y., Ozdemir N., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.19, no.1, pp.83-94, 2002 (SCI-Expanded)

CXI. **Expression of liver-specific functions by rat hepatocytes seeded in treated poly(lactic-co-glycolic) acid biodegradable foams**
Hasirci V. N., Berthiaume F., Bondre S., Gresser J., Trantolo D., Toner M., Wise D.
TISSUE ENGINEERING, vol.7, no.4, pp.385-394, 2001 (SCI-Expanded)

CXII. **EGF containing gelatin-based wound dressings**
Ulubayram K., Cakar A., Korkusuz P., Ertan C., HASIRCI N.
BIOMATERIALS, vol.22, no.11, pp.1345-1356, 2001 (SCI-Expanded)

CXIII. **In vivo response to biodegradable controlled antibiotic release systems**
Korkusuz F., Korkusuz P., Eksioglu F., Gursel I., Hasirci V. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, vol.55, no.2, pp.217-228, 2001 (SCI-Expanded)

CXIV. **Biodegradable polyhydroxyalkanoate implants for osteomyelitis therapy: in vitro antibiotic release**
Turesin F., Gursel I., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.12, no.2, pp.195-207, 2001 (SCI-Expanded)

CXV. **Immobilization of acetylcholinesterase and choline oxidase in/on pHEMA membrane for biosensor construction**
Kök F. N., Bozoglu F., Hasirci V. N.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.12, no.11, pp.1161-1176, 2001 (SCI-Expanded)

CXVI. **Controlled release of vancomycin from biodegradable microcapsules**
Ozalp Y., Ozdemir N., Kocagoz S., Hasirci V. N.

JOURNAL OF MICROENCAPSULATION, vol.18, no.1, pp.89-110, 2001 (SCI-Expanded)

CXVII. **Biodegradable foam coating of cortical allografts**
Bondre S., Lewandrowski K., Hasirci V. N., Cattaneo M., Gresser J., Wise D., Tomford W., Trantolo D.
TISSUE ENGINEERING, vol.6, no.3, pp.217-227, 2000 (SCI-Expanded)

CXVIII. **Controlled release of aldicarb from lignin loaded ionotropic hydrogel microspheres**
Kök F. N., Wilkins R., Cain R., Arica M., Alaeddinoglu G., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.16, no.5, pp.613-623, 1999 (SCI-Expanded)

CXIX. **Sulbactam-cefoperazone polyhydroxybutyrate-co-hydroxyvalerate (PHBV) local antibiotic delivery system: In vivo effectiveness and biocompatibility in the treatment of implant-related experimental osteomyelitis**
Yagmurlu M., Korkusuz F., Gursel I., Korkusuz P., Ors U., Hasirci V. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, vol.46, no.4, pp.494-503, 1999 (SCI-Expanded)

CXX. **A novel osteochondral implant**
Yaylaoglu M., Yildiz C., Korkusuz F., Hasirci V. N.
BIOMATERIALS, vol.20, no.16, pp.1513-1520, 1999 (SCI-Expanded)

CXXI. **Development of a calcium phosphate-gelatin composite as a bone substitute and its use in drug release**
Yaylaoglu M., Korkusuz P., Ors U., Korkusuz F., Hasirci V. N.
BIOMATERIALS, vol.20, no.8, pp.711-719, 1999 (SCI-Expanded)

CXXII. **Synthesis and mechanical properties of interpenetrating networks of polyhydroxybutyrate-co-hydroxyvalerate and polyhydroxyethyl methacrylate**
Gursel I., Balcik C., Arica Y., Akkus O., Akkas N., Hasirci V. N.
BIOMATERIALS, vol.19, no.13, pp.1137-1143, 1998 (SCI-Expanded)

CXXIII. **Mechanism of calcium ion induced multilamellar vesicle DNA interaction**
Mozafari M., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.15, no.1, pp.55-65, 1998 (SCI-Expanded)

CXXIV. **In-vitro studies of enteric coated diclofenac sodium-carboxymethylcellulose microspheres**
Arica B., Arica M., Kas H., Hincal A., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.13, no.6, pp.689-699, 1996 (SCI-Expanded)

CXXV. **Pesticide and model drug release from carboxymethylceullose microspheres**
Darvari R., Hasirci V. N.
JOURNAL OF MICROENCAPSULATION, vol.13, no.1, pp.9-24, 1996 (SCI-Expanded)

CXXVI. **INFLUENCE OF MEMBRANE-COMPONENTS ON THE STABILITY AND DRUG-RELEASE PROPERTIES OF REVERSE-PHASE EVAPORATION VESICLES (REVS) - LIGHT-SENSITIVE ALL-TRANS RETINAL, NEGATIVELY CHARGED PHOSPHOLIPID DICETYLPHOSPHATE AND CHOLESTEROL**
GÜRSEL M., HASIRCI V. N.
JOURNAL OF MICROENCAPSULATION, vol.12, no.6, pp.661-669, 1995 (SCI-Expanded)

CXXVII. **PROPERTIES AND DRUG-RELEASE BEHAVIOR OF POLY(3-HYDROXYBUTYRIC ACID) AND VARIOUS POLY(3-HYDROXYBUTYRATE-HYDROXYVALERATE) COPOLYMER MICROCAPSULES**
GURSEL I., HASIRCI V. N.
JOURNAL OF MICROENCAPSULATION, vol.12, no.2, pp.185-193, 1995 (SCI-Expanded)

CXXVIII. **GLUCOSE-OXIDASE SANDWICHED BETWEEN PHEMA LAYERS - A CONTINUOUS-FLOW REACTOR APPLICATION**
ARICA M., HASIRCI V. N.
BIOMATERIALS, vol.14, no.11, pp.809-816, 1993 (SCI-Expanded)

CXXIX. **BIOREACTOR APPLICATIONS OF GLUCOSE-OXIDASE COVALENTLY BONDED ON PHEMA MEMBRANES**
ARICA M., HASIRCI V. N.
BIOMATERIALS, vol.14, no.11, pp.803-808, 1993 (SCI-Expanded)

CXXX. **MATRIX ENTRAPMENT OF GLUCOSE-OXIDASE BY GAMMA-IRRADIATION**
GURSEL I., HASIRCI V. N.
BIOMATERIALS, vol.13, no.3, pp.150-155, 1992 (SCI-Expanded)

CXXXI. **SUSTAINED-RELEASE OF A MODEL MACROMOLECULE FROM PREPARATIONS WITH ERODIBLE CORE**
HASIRCI V. N., KAMEL I.
BIOMATERIALS, vol.9, no.5, pp.424-428, 1988 (SCI-Expanded)

CXXXII. **IMMOBILIZATION OF YEAST-CELLS IN ACRYLAMIDE-GEL MATRIX**
AYKUT G., HASIRCI V. N., ALAEDDINOGLU G.
BIOMATERIALS, vol.9, no.2, pp.168-172, 1988 (SCI-Expanded)

CXXXIII. **IMMOBILIZATION OF GLUCOSE-OXIDASE IN POLY(2-HYDROXYETHYL METHACRYLATE) MEMBRANES**
ARICA Y., HASIRCI V. N.
BIOMATERIALS, vol.8, no.6, pp.489-495, 1987 (SCI-Expanded)

CXXXIV. **MEMBRANE-PERMEABILITY OF SOME MODEL COMPOUNDS THROUGH MACROPOROUS MEMBRANES**
HASIRCI V. N., KAMEL I.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.33, no.3, pp.925-932, 1987 (SCI-Expanded)

CXXXV. **PVNO-DVB HYDROGELS - SYNTHESIS AND CHARACTERIZATION**
HASIRCI V. N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.27, no.1, pp.33-41, 1982 (SCI-Expanded)

CXXXVI. **SYNTHESIS AND CHARACTERIZATION OF PVNO AND PVNO-PVP HYDROGELS**
HASIRCI V. N.
BIOMATERIALS, vol.2, no.1, pp.3-8, 1981 (SCI-Expanded)

Articles Published in Other Journals

I. **Is 3D Printing Promising for Osteochondral Tissue Regeneration?**
Ege D., HASIRCI V. N.
ACS APPLIED BIO MATERIALS, vol.6, no.4, pp.1431-1444, 2023 (ESCI)

II. **Developments in the application of three dimensional printing in the medical field**
Hasirci V. N., Yücel D., Kenar H.
TOTBID, vol.21, no.0, pp.102-111, 2022 (Peer-Reviewed Journal)

III. **Evaluation of a collagen-bioaggregate composite scaffold in the repair of sheep pulp tissue**
Daya B., Bilecen D. S., Eroksuz H., Yalcin M., Hasarca V. N.
EUROPEAN ORAL RESEARCH, vol.55, no.3, pp.152-161, 2021 (ESCI)

IV. **Collagen Based Multilayer Scaffolds for Meniscus Tissue Engineering: In Vivo Test Results. Biomater Med Appl 2: 1**
Albana Ndreu H., KARAHAN S., KÜRÜM B., HASIRCI V. N.
Biomaterials Medical Applications, 2018 (Peer-Reviewed Journal)

V. **Collagen Based Multilayer Scaffolds for Meniscus Tissue Engineering: In Vivo Test Results**
ndreu halili a., KARAHAN S., KÜRÜM B., HASIRCI V. N.
Biomaterials and Medical Applications, vol.2, no.1, pp.1-9, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Fundamentals of Biomaterials (2nd Edition , yazımda)**
Hasirci V. N., Hasirci N.
Springer, London/Berlin , New York, 2024

II. **Doku Mühendisliği, Hidrojeller ve Biyomürekkepler, 3- Boyutlu Organ Yapımı**
Hasirci N., Hasirci V. N.
ODTÜ Yayıncılık, Ankara, 2023

III. **Biyomalzemelerin Temel İlkeleri**
Hasirci N., Hasirci V. N.
Middle East Technical University, Ankara, 2022

IV. **Nano-Mikrobiyomalzemelerin biyoteknolojide işlevi**
Kenar H., Yücel D., Çitoğlu S., Hasırcı V. N.
in: Nanobiyoteknoloji, Ata Akın, Editor, Türkiye Klinikleri Yayınevi, Ankara, pp.47-57, 2021

V. **Engineered Biopolymers**
Dursun Usal T., Kılıç Bektaş C., Hasırcı N., Hasırcı V. N.
in: Soft MAtter, Corinne Nardin,Helmut Schlaad, Editor, Wiley-VCH Verlag Weinheim GmbH , Aachen, pp.65-81, 2021

VI. **Mechanobiology**
Ermiş Şen M., Sayın E., Antmen E., Hasırcı V. N.
in: Soft Matter, Corinne Nardin,Helmut Schlaad, Editor, Wiley-VCH Verlag Weinheim GmbH , Aachen, pp.231-263, 2021

VII. **Engineered Hydrogels**
Kılıç Bektaş C., Dursun Usal T., Hasırcı N., Hasırcı V. N.
in: Soft Matter, Corinne nardin,Helmut Schlaad, Editor, Wiley-VCH Verlag Weinheim GmbH , Aachen, pp.89-106, 2021

VIII. **Fundamentals of Biomaterials**
HASIRCI V. N., HASIRCI N.
Springer, New York, 2018

IX. **Nanotechnology in biomaterials: Nanoparticulates as drug delivery systems**
Demirbağ B., Kardeşler S., Büyüksungur A., Küçükturhan A., Eke G., Hasırcı N., Hasırcı V. N.
in: Bionanotechnology II: Global prospects, David E. Reisner, Editor, CRC, New York , New York, pp.227-246, 2011

Refereed Congress / Symposium Publications in Proceedings

I. **Sıçanlarda siyatik sinir hasarı modelinde, 3B yazıcı ile üretilen polikaprolakton tüpler sinir iyileşmesini arttırdı**
SARA M. Y., yeşiltepe m., HASIRCI V. N.
25. ULUSAL FARMAKOLOJİ KONGRESİ, kuşadası, Turkey, 4 - 07 November 2019, vol.1, pp.101

II. **Sıçanlarda Siyatik Sinir Hasarı Modelinde 3B Yazıcı ile Üretilen Tüpler Sinir İyileşmesini Arttırdı**
DURSUN USAL T., yeşiltepe m., YÜCEL D., SARA M. Y., HASIRCI V. N.
25. Ulusal Farmakoloji Kongresi, Aydın, Turkey, 4 - 07 November 2019

III. **Yüzey Mikro Mimarisinin Osteojenik Etkileri**
ERMİŞ ŞEN M., Hastürk O., DEMİRCİ U., HASIRCI N., HASIRCI V. N.
23. Biyomedikal Bilim ve Teknoloji Sempozyumu, İstanbul, Turkey, 15 - 17 December 2018

IV. **3B Basılı Hücre Taşıyan GelMA Hidrojelleri ile Kornea Stroma Mühendisliği**
BEKTAŞ C., HASIRCI V. N.
23. Biyomedikal ve Teknoloji Sempozyumu, Turkey, 15 - 16 December 2018

V. **Biomedical Application of Modified PCL Fibers**
ENDOĞAN TANIR T., malikmammadov e., KIZILTAY A., HASIRCI V. N., HASIRCI N.
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, 9 - 12 September 2018

VI. **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.
IBMEC'18, Second International Biomedical Engineering Conference, Cyprus (Kktc), 24 - 27 May 2018

VII. **Human Corneal Keratocytes Loaded Methacrylated Gelatin Hydrogels as a Model Corneal Stroma**
BEKTAŞ C., HASIRCI V. N.
28th Annual Conference of the European Society for Biomaterials (ESB), Atina, Greece, 4 - 08 September 2017

VIII. **A UV crosslinked hydrogel loaded with ADSCto promote vascularization for tissue engineered skin**
EKE G., Mangir N., HASIRCI N., MacNeil S., HASIRCI V. N.
TERMIS, 26 - 30 June 2017

IX. **Targeted delivery of PEI:DNAoligo complexes with PLGA nanocapsules to bone tissue**
SEZLEV BİLECEN D., RODRIGUEZ CABELLO J. C., ULUDAĞ H., HASIRCI V. N.
22nd International Biomedical Science and Technology Symposium, 12 - 14 May 2017

X. **PCL-Fibrin Scaffolds for Tissue Engineering**
Malikmammadov E., ENDOĞAN TANIR T., KIZILTAY A., HASIRCI V. N., HASIRCI N.
22nd International Biomedical Science and Technology Symposium, 12 - 14 May 2017

XI. **PCL-Fibrin scaffolds for bone tissue engineering applications**
malikmammadov e., ENDOĞAN TANIR T., KIZILTAY A., HASIRCI V. N., HASIRCI N.
22nd International Biomedical Science Technology Symposium, Ankara, Turkey, 12 - 14 May 2017

XII. **GelMA-HEMA BCN Hydrogels for Corneal Stroma Engineering**
BEKTAŞ C., HASIRCI V. N.
22nd International Biomedical Science and Technology Symposium, Ankara, Turkey, 12 - 14 May 2017

XIII. **Estradiol releasing hydrogel as a proangiogenic substitute for fat flaps used in urogenital reconstruction**
EKE G., Mangir N., HASIRCI N., Chapple C., HASIRCI V. N., MacNeil S.
32nd Annual European Associationof Urology, Londrina, Brazil, 24 - 28 March 2017

XIV. **Delivery of Drugs into Cells with PHBV Nanoparticles**
Şahin A., EKE G., HASIRCI N., HASIRCI V. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015

XV. **Controlled Doxorubicin Delivery from Photoresponsive Liposomes Carrying Vitamin A Derivatives**
Büyüksungur S., HASIRCI N., HASIRCI V. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015

XVI. **3D Printed Tissue Engineered Femoral Implant Design and Production**
Büyüksungur S., Büyüksungur A., HASIRCI N., HASIRCI V. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015

XVII. **Guided Tissue Regeneration by Micro and Nanofabricated Scaffolds**
Baran E. T., Kömez A., SAYIN E., HASIRCI N., HASIRCI V. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015

XVIII. **Open Source 3D Printed PHA PLA Construct for Bone Tissue Engineering**
Alagöz A. S., HASIRCI N., HASIRCI V. N.
East West Asia Biomaterials Symposium, 21 October 2015

XIX. **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

XX. **NaCMC and Collagen Bilayer Scaffolds for Skin Tissue Engineering**
BEKTAŞ C., Kımız I., ŞENDEMİR ÜRKMEZ A., HASIRCI V. N., HASIRCI N.
East West Asia Biomaterials Symposium, 21 October 2015

XXI. **Biopolymers in Tissue Engineering and Regenerative Medicine**
HASIRCI V. N., Alagöz S., DURSUN T., Kılıç Bektaş C., Hasirci N.
European Symposium on Biopolymers (ESBP2015) , 16 - 18 September 2015

XXII. **A 3D Printed PCL Based Scaffold for Potential Use in Meniscal Regeneration**
BAHÇECİOĞLU G., HASIRCI N., HASIRCI V. N.
4th TERMIS World Congress, 8 - 11 September 2015

XXIII. **Collagen and Carboxymethyl Cellulose Bilayers for Skin Tissue Repair**
BEKTAŞ C., Kımız I., ŞENDEMİR ÜRKMEZ A., HASIRCI V. N., HASIRCI N.
27th The European Conference on Biomaterials (ESB), 30 August - 03 September 2015

XXIV. **Tissue engineering of full thickness human oral mucosa**
KINIKOĞLU F. B., AUXENFANS C., PIERRILLAS P., BRETON P., HASIRCI V. N., Damour O.
23rd European Conference on Biomaterials (ESB), Tampere, Finland, 11 - 15 September 2010

XXV. **Effect of LLLT aplication on saos 2-human osteoblast like cells in terms of proliferation and ALP activity:a preliminary study.**

Bayram H., Taşar F., KENAR H., Hasırcı V. N., KÖSEOĞLU O. T.
World Federation for Laser Dentistry Kongress,Dubai, 15 - 18 July 2010

XXVI. **Importance of cell interactions in tissue engineering of oral mucosa**
KINIKOĞLU F. B., AUXENFANS C., PIERRILLAS P., BRETON P., HASIRCI V. N., Damour O.
Tissue Engineering Regenerative Medicine International Society (TERMIS) Annual Meeting, Galway, Ireland, 13 - 17 June 2010

XXVII. **Polyester and collagen scaffolds for cornea tissue engineering**
Hasirci V. N., Vrana N. E., Zorlutuna P.
Conference of the Tissue-Engineering-and-Regenerative-Medicine-International-Society (TERMIS-EU), London, Canada, 4 - 07 September 2007, vol.13, pp.1743

Supported Projects

Yücel D., Hasırcı V. N., Işık Ş., TUBITAK Project, In Vitro Glioblastoma Modeli Oluşturulması Ve Doğrulanması, 2024 - 2025
Hasirci V. N., Hasirci N., Yücel D., Çelebi A. R. C., Arslantunali Şahin D., Turkey Institutes of Health Administration Project, 3B Basımla Üretilen Yapay Korneanın In Vivo Uygulanması ve Translasyonu, 2022 - 2024
Hasirci 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
HASIRCI V. N., YÜCEL D., Hasırcı N., TUBITAK Project, Mikrodesenli Çip Üzerinde Sinir Doku Modeli Oluşturulması, Akson Yönlendirme ve Sinir Hasarı İyileşme Süreçlerinin İncelenmesi, 2021 - 2024
Hasırcı V. N., Kenar H., Yeşilyurt A. E., Project Supported by Higher Education Institutions, Elektro Eğirme Yöntemiyle Üretilecek 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., TUBITAK Project, Doku Mühendisliği Yöntemleriyle Katmanlı, Tübüler, Küçük-Orta Çaplı Damar Dokusu Geliştirilmesi, 2018 - 2021

Patent

Hasirci V. N., Hasirci 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
Hasirci 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 UNİON 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

Metrics

Publication: 198
Citation (WoS): 5664
Citation (Scopus): 6274
H-Index (WoS): 43
H-Index (Scopus): 45

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