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., 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., 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. **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)

III. **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)

IV. **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)

V. **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)

VI. **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)

VII. **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)

VIII. **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)

IX. **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)

X. **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)

XI. **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)

XII. **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)

XIII. **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)

XIV. **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)

XV. **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)

XVI. **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)

XVII. **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)

XVIII. **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)

XIX. **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)

XX. **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)

XXI. **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)

XXII. **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)

XXIII. **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)

XXIV. **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)

XXV. **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)

XXVI. **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)

XXVII. **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)

XXVIII. **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)

XXIX. **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)

XXX. **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)

XXXI. **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)

XXXII. **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)

XXXIII. **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)

XXXIV. **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)

XXXV. **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)

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. **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)

XXXIX. **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)

XL. **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)

XLI. **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)

XLII. **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)

XLIII. **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)

XLIV. **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)

XLV. **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)

XLVI. **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)

XLVII. **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)

XLVIII. **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)

XLIX. **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)

L. **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)

LI. **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)

LII. **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)

LIII. **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)

LIV. **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)

LV. **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)

LVI. **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)

LVII. **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)

LVIII. **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)

LIX. **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)

LX. **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)

LXI. **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)

LXII. **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)

LXIII. **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)

LXIV. **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)

LXV. **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)

LXVI. **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)

LXVII. **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)

LXVIII. **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)

LXIX. **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)

LXX. **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)

LXXI. **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)

LXXII. **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)

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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
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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
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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
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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
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Metrics

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Citation (WoS): 5617
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H-Index (WoS): 43
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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