

Prof. Vasif Nejat HASIRCI

Personal Information

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Education Information

Doctorate, University of Reading, Chemistry, United Kingdom 1973 - 1976

Post Graduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1971 - 1973

Foreign Languages

English, C2 Proficiency

Dissertations

Post Graduate, 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

Academic Titles / Tasks

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

Courses

Advanced Biomaterials, Post Graduate, 2019 - 2020

Fundamentals of Polymeric Biomaterials, Post Graduate, 2019 - 2020

Advising Theses

Hasirci V. N. , Design and in vitro Testing of a Peripheral Nerve Guide, Post Graduate, D.GÖKSU(Student), 2019

Hasirci V. N. , A BIO AND SYNTHETIC POLYMER BASED NERVE GUIDE TESTED UNDER IN VITRO AND IN VIVO CONDITIONS, Doctorate, T.DURSUN(Student), 2019

Hasirci V. N. , PATIENT-SPECIFIC ORTHOPEDIC IMPLANT DESIGN AND PRODUCTION WITH TISSUE ENGINEERING METHOD, Doctorate, S.BÜYÜKSUNGUR(Student), 2019

Hasirci V. N. , Development of a bone tumor model under in vitro conditions, Doctorate, A.KÖMEZ(Student), 2019

Hasirci V. N. , 3D printed, cell carrying gelma hydrogels in corneal stroma engineering, Doctorate, C.BEKTAŞ(Student), 2018

Hasirci V. N. , Development and characterization of a tissue engineered multicomponent skin substitute and a skin model, Doctorate, G.EKE(Student), 2018

Hasirci V. N. , A three-dimensional printed, polycaprolactone/hydrogel based, tissue engineered meniscus, Doctorate, G.BAHÇEÇİOĞLU(Student), 2018

Hasirci V. N. , Development of a siRNA delivery system for the treatment of osteoporosis, Doctorate, D.SEZLEV(Student), 2018

Hasirci V. N. , In vitro characterization and nuclear delivery of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) (PHBV) based nanoparticles, Post Graduate, A.Şahin(Student), 2015

Hasirci V. N. , A polymeric implant for lumbar bone defects, Post Graduate, B.Büşra(Student), 2015

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

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

Hasirci V. N. , Poly(L-Lactic acid) (PLLA)-based meniscus tissue engineering, Post Graduate, G.BAHÇEÇİOĞLU(Student), 2011

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

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

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

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

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

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

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

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

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

Hasirci V. N. , Alaeddinoğlu N. G. , Bacterial production and screening of polyhydroxyalkanoates by using a novel spectrofluorometric method, Post Graduate, B.EMRE(Student), 1999

Hasirci V. N. , Antibiotic release from biodegradable microbial polyesters, Post Graduate, D.ŞENDİL(Student), 1997

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

Hasirci V. N. , Liposome-derived model DNA delivery systems, Post Graduate, M.REZA(Student), 1996

Hasirci V. N. , Structural stability of liposomes and the influence of constituents, Post Graduate, A.BORUCU(Student), 1994

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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, pp.1-12, 2019 (Journal Indexed in SCI)
- 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, pp.1195-1202, 2019 (Journal Indexed in SCI)
- 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, 2019 (Journal Indexed in SCI)
- 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, pp.366-376,

2019 (Journal Indexed in SCI)

- **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, 2018 (Journal Indexed in SCI)
- **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, pp.1402-1424, 2015 (Journal Indexed in SCI)
- **Preparation and Characterization of Chitosan and PLGA-Based Scaffolds for Tissue Engineering Applications**
Tanir T. E. , Hasirci V. N. , HASIRCIN.
POLYMER COMPOSITES, vol.36, pp.1917-1930, 2015 (Journal Indexed in SCI)
- **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., HASIRCIN., Hasirci V. N.
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.30, pp.455-471, 2015 (Journal Indexed in SCI)
- **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. , HASIRCIN.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.9, pp.930-942, 2015 (Journal Indexed in SCI)
- **pH-Responsive Nano Carriers for Doxorubicin Delivery**
Bagherifam S., Skjeldal F. M. , Griffiths G., Maelandsmo G. M. , Engebraten O., Nystrom B., Hasirci V. N. , HASIRCIN.
PHARMACEUTICAL RESEARCH, vol.32, pp.1249-1263, 2015 (Journal Indexed in SCI)
- **Tissue engineering of oral mucosa: a shared concept with skin**
Kinikoglu B., Damour O., Hasirci V. N.
JOURNAL OF ARTIFICIAL ORGANS, vol.18, pp.8-19, 2015 (Journal Indexed in SCI)
- **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. , HASIRCIN.
JOURNAL OF MICROENCAPSULATION, vol.32, pp.166-174, 2015 (Journal Indexed in SCI)
- **Effect of scaffold architecture and BMP-2/BMP-7 delivery on in vitro bone regeneration**
Yilgor P., Sousa R. A. , Reis R. L. , HASIRCIN., Hasirci V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.21, pp.2999-3008, 2010 (Journal Indexed in SCI)
- **Sequential BMP-2/BMP-7 delivery from polyester nanocapsules**
Yilgor P., HASIRCIN., HASIRCIV. N.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, pp.528-536, 2010 (Journal Indexed in SCI)
- **Polyester based nerve guidance conduit design**
Yucel D., Kose G. T. , Hasirci V. N.
BIOMATERIALS, vol.31, pp.1596-1603, 2010 (Journal Indexed in SCI)
- **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, pp.3586-3591, 2009 (Journal Indexed in SCI)
- **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. , HASIRCIN., Hasirci V. N.
BIOMATERIALS, vol.30, pp.3551-3559, 2009 (Journal Indexed in SCI)
- **Bone tissue engineering on patterned collagen films: an in vitro study**
Ber S., Kose G., Hasirci V. N.
BIOMATERIALS, vol.26, pp.1977-1986, 2005 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **Cell implant Interactions and Their Role on Cell Behaviour**
HASIRCIV. N.
21st International Biomedical Science and Technology Symposium, 22 - 24 October 2015
- **3D Printed Tissue Engineered Femoral Implant Design and Production**
Büyüksungur S., Büyüksungur A., HASIRCIN., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Micropatterned Substrates for Cell Cycle Synchronization in MDA MB231 Breast Carcinoma Cell Line**
Ermış M., ÇALAMAK S., Chen P., ULUBAYRAM K., HASIRCIV. N. , demirci U.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Synthesis of Polyurethane for Coating of Neurostimulators**
Kömez A., Büyüksungur S., HASIRCIV. N. , HASIRCIN.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Use of Hydroxyapatite Specific Elastin Like Polypeptide in Targeting of PLGA Nanocapsules to Bone Tissue**
Sezlev D., Uludağ H., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Development of Polymeric Cage Material for Use in Lumbar Bone Defects**
Günay B., HASIRCIN., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Delivery of Drugs into Cells with PHBV Nanoparticles**
Şahin A., EKE G., HASIRCIN., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Polycaprolactone Collagen Based Electrospun Nanofiber Scaffolds for Vascular Tissue Engineering**
Öncü S., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Guided Tissue Regeneration by Micro and Nanofabricated Scaffolds**
Baran E. T. , Kömez A., SAYN E., HASIRCIN., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Effect of Micropatterned Surfaces on the Cell Adhesion and Nuclear Deformation of Saos 2 Cells on Collagen and PLGA Films**
Antmen E., Ermış M., Demirci U., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium, 22 - 24 October 2015
- **Controlled Doxorubicin Delivery from Photoresponsive Liposomes Carrying Vitamin A Derivatives**
Büyüksungur S., HASIRCIN., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium., 22 - 24 October 2015
- **Co culture of VSMC and HUVEC on Electrospun Polycaprolactone Collagen Mats as a Vascular Substitute**
Öncü S., HASIRCIV. N.
21st International Biomedical Science and Technology Symposium, 22 - 24 October 2015
- **Construction of a Retina Substitute by Using Tissue Engineering Approach**
Kömez A., Baran E. T. , HASIRCIV. N.
East West Asia Biomaterials Symposium, 21 October 2015
- **Open Source 3D Printed PHA PLA Construct for Bone Tissue Engineering**
Alagöz A. S. , HASIRCIN., HASIRCIV. N.
East West Asia Biomaterials Symposium, 21 October 2015
- **Influence of Micropatterns on Human Mesenchymal Stem Cell Fate**
Hastürk O., HASIRCIN., HASIRCIV. N.
East West Asia Biomaterials Symposium, 21 October 2015
- **NaCMC and Collagen Bilayer Scaffolds for Skin Tissue Engineering**
BEKTAŞ C., Kırmız I., ŞENDEMİR ÜRKMEZ A., HASIRCIV. N. , HASIRCIN.
East West Asia Biomaterials Symposium, 21 October 2015
- **Contribution of a Bioactive Elastin Like Protein to 2D Collagen Fibroin Scaffolds**

SAYIN E., Rodriguez Cabello J. C. , Baran E. T. , HASIRCI V. N.

East West Asia Biomaterials Symposium, 21 October 2015

- **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

- **Delivery of Drugs into Cells with PHBV Nanoparticles**

Şahin A., EKE G., HASIRCI N., HASIRCI V. N.

4th TERMIS World Congress, 8 - 11 September 2015, vol.21, pp.1-413

- **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

- **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

- **A Novel Biological Polyester Based Wet Spun Scaffold for Bone Tissue Engineering**

ALAGÖZ A. S. , Rodriguez Cabello J. C. , HASIRCI N., HASIRCI V. N.

27th European Conference on Biomaterials (ESB), 30 August - 03 September 2015

- **Effect of Osteogenic Growth of Adipose Derived Stem Cells And Human Osteoblasts on the Mechanical Properties of Protein Based Films with Microchannels**

SAYIN E., Rashid R. H. , Elsheikh A., Rodriguez Cabello J. C. , BARAN E. T. , HASIRCI V. N.

27th European Conference on Biomaterials (ESB), 30 August - 03 September 2015

- **Wet Spun Scaffolds of PHA PLA Blend for Bone Tissue Engineering**

Alagöz A. S. , Rodriguez Cabello J. C. , HASIRCI N., HASIRCI V. N.

27th European Conference on Biomaterials (ESB), 30 August - 03 September 2015

- **Patterned Thermo-responsive NIPAM pHEMA Hydrogels for Corneal Repair**

BEKTAŞ C., HASIRCI V. N.

27th European Conference on Biomaterials (ESB2015), 30 August - 03 September 2015

- **3D plotted PCL scaffolds for stem cell based bone tissue engineering**

Yilgor P., Sousa R. A. , Reis R. L. , HASIRCI N., Hasirci V. N.

4th European Symposium on Biopolymers, Kusadasi, Turkey, 2 - 04 October 2007, vol.269, pp.92-99

Citations

Total Citations (WOS):783

h-index (WOS):10

Awards

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

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

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

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

Hasirci V. N. , Science Award, Bilim Akademisi, December 2001