

**CURRICULUM VITAE  
SAEED KARBASI**

**CONTACT INFORMATION**

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Nanotechnology and Tissue  
engineering, School of Advanced  
Technology in Medicine, Isfahan  
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Isfahan, Iran

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**CURRENT STATUS**

**Professor** of Biomaterials and Tissue Engineering, School of Advanced Technology  
in Medicine, Isfahan University of Medical Sciences

**EDUCATIONAL BACKGROUND**

- 2001 - 2005      **PhD in Biomedical Engineering: Biomaterials and Tissue  
Engineering**  
Amirkabir University of Technology, Tehran, Iran
- 2004 - 2004      **PhD Fellowship in Tissue Engineering: Cartilage Tissue  
Engineering**  
Oxford University, Oxford, UK
- 1998 - 2001      **MSc in Biomedical Engineering: Biomaterial**  
Amirkabir University of Technology, Tehran, Iran
- 1994 - 1998      **BSc in Material Engineering: Metal Forming**  
Shiraz University, Shiraz, Iran

**COURSES TAUGHT**

TISSUE ENGINEERING, CELL AND TISSUE ENGINEERING, COMPOSITE BIOMATERIALS,  
POLYMERIC BIOMATERIALS, SEMINAR, MODELING IN PHYSIOLOGICAL SYSTEMS,  
SCAFFOLDING IN TISSUE ENGINEERING, ARTIFICIAL MATERIALS PROPERTY, METAL  
MATERIALS PROPERTY, SOLID MECHANICS, ADVANCED MATERIALS, MATERIALS  
SELECTION, DRAWING, MECHANICAL PROPERTIES OF MATERIALS, ....

## **RESEARCH INTERESTS**

### **Tissue Engineering**

Design and Fabrication of Biodegradable Scaffolds, Stem Cells, Environmental Factors, Regenerating of Different Tissues, Bioreactor Design

### **Biodegradable Materials**

Injectable Biodegradable scaffolds, Biodegradable Hydrogels, Biopolymers, Biodegradable Photo-polymerizable Polymers, Biodegradable Biocomposites

### **Biomaterials**

Biocomposites, Bioceramics, Biocompatibility, Hemocompatibility, Sterilization Methods, Dental Materials, Surgical Alloys, porous metals, Surface Treatment of Biomaterials, Orthosis and Prosthesis

### **Material Science**

Advanced materials, Composites, Shape Memory alloys, Selection of Materials

## **SELECTED PUBLICATIONS**

### **A) JOURNAL PAPERS**

#### **Evaluation of the Effects of keratin on Physical, Mechanical and Biological Properties of Poly (3-hydroxybutyrate) Electrospun Scaffold: Potential Application in Bone Tissue Engineering**

*Journal:* European Polymer Journal. 2020;

*Authors:* Parisa Naderi, Moein Zarei, Saeed Karbasi, Hossein Salehi

#### **Evaluation of physical, mechanical and biological properties of $\beta$ -tri-calcium phosphate/Poly-3-hydroxybutyrate nano composite scaffold for bone tissue engineering application**

*Journal:* Materials Technology. 2020;

*Authors:* Shabnam Shahi, Saeed Karbasi, Tahmineh Ahmadi, Farid Naeimi, Vahabodin Goodarzi, Somayeh Ebrahimi-Barough

#### **Evaluation of physical, mechanical, and biodegradation of chitosan/graphene oxide composite as bone substitutes**

*Journal:* Polymer-Plastics Technology and Materials. 2020;

*Authors:* Mohamadreza Tavakoli, Saeed Karbasi, Sanaz Soleymani Eil Bakhtiari

**Incorporation of chitosan/graphene oxide nanocomposite in to the PMMA bone cement: Physical, mechanical and biological evaluation**

*Journal:* International Journal of Biological Macromolecules. 2020;

*Authors:* Mohamadreza Tavakoli, Sanaz Soleymani Eil Bakhtiari, Saeed Karbasi

**Incorporation of multi-walled carbon nanotubes into electrospun PCL/gelatin scaffold: the influence on the physical, chemical and thermal properties and cell response for ...**

*Journal:* Materials Technology. 2020;

*Authors:* Parisa Zadehnajar, Saeed Karbasi, Babak Akbari, Laleh Ghasemi

**Biological evaluation of the effects of Hyaluronic acid on Poly (3-hydroxybutyrate) based Electrospun Nanocomposite scaffolds for cartilage tissue engineering application**

*Journal:* Materials Technology. 2020;

*Authors:* Mohammad Nikbakht, Saeed Karbasi, Seyed Mahdi Rezayat

**Evaluation of physical, mechanical and biological properties of bioglass/titania scaffold coated with poly (3-hydroxybutyrate)-chitosan for bone tissue engineering applications**

*Journal:* Materials Technology. 2020;

*Authors:* Maryam Parvizifard, Saeed Karbasi, Hossein Salehi, Sanaz Soleymani Eil Bakhtiari

**Biodegradation and cellular evaluation of aligned and random poly (3-hydroxybutyrate)/chitosan electrospun scaffold for nerve tissue engineering applications**

*Journal:* Materials Technology. 2020;

*Authors:* Afarin Karimi Tar, Saeed Karbasi, Elham Naghashzargar, Hossein Salehi

**Preparation and characterization of poly  $\epsilon$ -caprolactone-gelatin/multi-walled carbon nanotubes electrospun scaffolds for cartilage tissue engineering applications**

*Journal:* International Journal of Polymeric Materials and Polymeric Biomaterials. 2020;

*Authors:* Parisa Zadehnajar, Babak Akbari, Saeed Karbasi, Mohammad Hussein Mirmusavi

**Physical, mechanical and biological performance of PHB-Chitosan/MWCNTs nanocomposite coating deposited on bioglass based scaffold: Potential application in bone tissue engineering**

*Journal:* International Journal of Biological Macromolecules. 2020;

*Authors:* Maryam Parvizifard, Saeed Karbasi

**Evaluation of the effects of chitosan/multiwalled carbon nanotubes composite on physical, mechanical and biological properties of polymethyl methacrylate-based bone cements**

*Journal:* Materials Technology. 2020;

*Authors:* Sanaz Soleymani Eil Bakhtiari, Saeed Karbasi, Sayed Ali Hassanzadeh Tabrizi, Reza Ebrahimi-Kahrizangi, Hossein Salehi

**Baghdadite/Polycaprolactone nanocomposite scaffolds: preparation, characterisation, and in vitro biological responses of human osteoblast-like cells (Saos-2 cell line)**

*Journal:* Materials Technology. 2020;

*Authors:* Ahmadreza Arefpour, Masoud Kasiri-Asgarani, Ahmad Monshi, Saeed Karbasi, Ali Doostmohammadi

**Physical, mechanical and biological evaluation of poly (3-hydroxybutyrate)-chitosan/MWNTs as a novel electrospun scaffold for cartilage tissue engineering applications**

*Journal:* Polymer-Plastics Technology and Materials. 2020;

*Authors:* Z Mohammadalizadeh, S Karbasi, S Arasteh

**In Vitro and In Vivo Evaluation of Poly (3-hydroxybutyrate)/Carbon Nanotubes Electrospun Scaffolds for Periodontal Ligament Tissue Engineering**

*Journal:* Journal of Dentistry. 2020;

*Authors:* Moein Zarei, Saeed Karbasi, Fatemeh Sari Aslani, Shahrokh Zare, Omid Koochi-Hosseinabad, Nader Tanideh

**Potential of an electrospun composite scaffold of poly (3-hydroxybutyrate)-chitosan/alumina nanowires in bone tissue engineering applications**

*Journal:* Materials Science and Engineering: C. 2019;

*Authors:* Elahe Bahremandi Toloue, Saeed Karbasi, Hossein Salehi, Mohammad Rafienia

**Evaluation of physical, mechanical and biological properties of poly 3-hydroxybutyrate-chitosan-multiwalled carbon nanotube/silk nano-micro composite scaffold for cartilage ...**

*Journal:* International journal of biological macromolecules. 2019;

*Authors:* Mohammad Hossein Mirmusavi, Parisa Zadehnajar, Dariush Semnani, Saeed Karbasi, Farnoosh Fekrat, Fariba Heidari

**Effects of nano-bioactive glass on structural, mechanical and bioactivity properties of Poly (3-hydroxybutyrate) electrospun scaffold for bone tissue engineering applications**

*Journal:* Materials Technology. 2019;

*Authors:* Razieh Iron, Mehdi Mehdikhani, Elham Naghashzargar, Saeed Karbasi, Dariush Semnani

**Evaluation of the effects of  $\beta$ -tricalcium phosphate on physical, mechanical and biological properties of Poly (3-hydroxybutyrate)/chitosan electrospun scaffold for cartilage ...**

*Journal:* Materials Technology. 2019;

*Authors:* Sima Keikhaei, Zahra Mohammadalizadeh, Saeed Karbasi, Ali Salimi

**Fabrication, characterization and examination of in vitro of baghdadite nanoparticles for biomedical applications**

*Journal:* Materials Research Express. 2019;

*Authors:* Ahmadreza Arefpour, Masoud Kasiri-Asgarani, Ahmad Monshi, Ali Doostmohammadi, Saeed Karbasi

**Evaluation of the effects of hyaluronic acid on poly (3-hydroxybutyrate)/chitosan/carbon nanotubes electrospun scaffold: structure and mechanical properties**

*Journal:* Polymer-Plastics Technology and Materials. 2019;

*Authors:* Mohammad Nikbakht, Saeed Karbasi, Seyed Mahdi Rezayat, Shima Tavakol, Esmaeel Sharifi

**Chitosan/MWCNTs composite as bone substitute: Physical, mechanical, bioactivity, and biodegradation evaluation**

*Journal:* Polymer Composites. 2019;

*Authors:* Sanaz Soleymani Eil Bakhtiari, Saeed Karbasi, Sayed Ali Hassanzadeh Tabrizi, Reza Ebrahimi-Kahrizsangi

**A novel bilayer drug-loaded wound dressing of PVDF and PHB/Chitosan nanofibers applicable for post-surgical ulcers**

*Journal:* International Journal of Polymeric Materials and Polymeric Biomaterials. 2019;

*Authors:* Fatemeh Amini, Dariush Semnani, Saeed Karbasi, Seyedeh Nooshin Banitaba

**In vitro and in vivo performance of a propolis-coated polyurethane wound dressing with high porosity and antibacterial efficacy**

*Journal:* Colloids and Surfaces B: Biointerfaces. 2019;

*Authors:* Darioush Khodabakhshi, Asghar Eskandarinia, Amirhosein Kefayat, Mohammad Rafienia, Sepehr Navid, Saeed Karbasi, Jamal Moshtaghian

**Effect of Polyhydroxybutyrate/Chitosan/Bioglass nanofiber scaffold on proliferation and differentiation of stem cells from human exfoliated deciduous teeth into odontoblast-like cells**

*Journal:* Materials Science and Engineering: C. 2018;

*Authors:* Maryam Khoroushi, Mohammad Reza Foroughib, Saeed Karbasi, Batool Hashemibeni, Abbas Ali Khademi

**Effect of Duty cycle on the corrosion of Mg PEO coatings**

*Journal:* International Journal of Electrochemical Science. 2018;

*Authors:* Eslamzadeh, N., Ebrahimi-Kahrizsangi, R., Karbasi, S., Zarebidaki, A., Gharavi, F.

**Preparation and evaluation of poly glycerol sebacate/poly hydroxy butyrate core-shell electrospun nanofibers with sequentially release of ciprofloxacin and simvastatin in wound dressings**

*Journal:* Polymers for Advanced Technology. 2018;

*Authors:* Parisa Heydari, Jaleh Varshosaz, Anousheh Zargar Kharazi, Saeed Karbasi

**Assessing the physical and mechanical properties of poly 3-hydroxybutyrate-chitosan-multi-walled carbon nanotube/silk nano-micro composite scaffold for long-term healing tissue engineering applications**

*Journal:* Micro and Nano Letters. 2018;

*Authors:* Mohammad H. Mirmusavi, Saeed Karbasi, Dariush Semnani, Mohammad Rafienia, Anousheh Zargar Kharazi

**Cytotoxicity assessment of polyhydroxybutyrate/chitosan/nano- bioglass nanofiber scaffolds by stem cells from human exfoliated deciduous teeth stem cells from dental pulp of exfoliated deciduous tooth**

*Journal:* Dental Research Journal. 2018;

*Authors:* Batool Hashemi-Beni, Maryam Khoroushi, Mohammad Reza Foroughi, Saeed Karbasi, Abbas Ali Khademi

**Evaluation of the effects of multiwalled carbon nanotubes on electrospun poly(3-hydroxybutyrate) scaffold for tissue engineering applications**

*Journal:* Journal of Porous Materials. 2018;

*Authors:* Moein Zarei, Saeed Karbasi

**Poly (hydroxybutyrate)/chitosan Aligned Electrospun Scaffold as a Novel Substrate for Nerve Tissue Engineering**

*Journal:* Advanced Biomedical Research. 2018;

*Authors:* Afarin Karimi, Saeed Karbasi, Shahnaz Razavi, Elham Naghash Zargar

**Characterization of Silk/Poly 3-Hydroxybutyrate-chitosan-multi-walled Carbon Nanotube Micro-nano Scaffold: A New Hybrid Scaffold for Tissue Engineering Applications**

*Journal:* Journal of Medical Signals and Sensors. 2018;

*Authors:* Mohammad Hossein Mirmusavi, Saeed Karbasi, Dariush Semnani, Anousheh Zargar Kharazi

**Evaluation of structural, mechanical, and cellular behavior of electrospun poly-3-hydroxybutyrate scaffolds loaded with glucosamine sulfate to develop cartilage tissue engineering**

*Journal:* International Journal of Polymeric Materials and Polymeric Biomaterials. 2017;

*Authors:* Zahra Shahali, Saeed Karbasi, Mohammad Reza Avadi, Dariush Semnani, Elham Naghash Zargar, Batoul HashemiBani

**Evaluation of physical and mechanical properties of -tri-calcium phosphate/poly-3-hydroxybutyrate nanocomposite sca\_ old for bone tissue engineering application**

*Journal:* Scientia Iranica: F. 2017;

*Authors:* Sh. Shahi, S. Karbasi

**Electrospinning of aligned medical grade polyurethane nanofibres and evaluation of cell-scaffold interaction using SHED stem cells**

*Journal:* Micro and Nano letters. 2017;

*Authors:* Javad Yekrang, Dariush Semnani, Mohammad H. Beigi, Saeed Karbasi

**Effects of Multi-wall Carbon Nano-tubes (MWNTs) On Structural and Mechanical Properties of Poly (3-hydroxybutyrate)/ Chitosan Electrospun Scaffolds for Cartilage Tissue Engineering**

*Journal:* Bulletin of Materials Science. 2017;

*Authors:* Saeed Karbasi, Zahra Mohammad Alizadeh

**Poly(hydroxybutyrate)/chitosan Aligned Electrospun Scaffold as a Novel Substrate for Nerve Tissue Engineering**

*Journal:* Advanced Biomedical Research. 2017;

*Authors:* Afarin Karimi, Saeed Karbasi, Shahnaz Razavi, Elham Naghash Zargar

**Tissue Engineering: Dentin – Pulp Complex Regeneration Approaches (A Review)**

*Journal:* Tissue and Cell. 2017;

*Authors:* Batool Hashemi-Beni, Maryam Khoroushi, Mohammad Reza Foroughi, Saeed Karbasi, Abbas Ali Khademi

**Polyhydroxybutyrate/chitosan/bioglass nanocomposite as a novel electrospun scaffold: fabrication and characterization**

*Journal:* Journal of Porous Materials. 2017;

*Authors:* Mohammad Reza Foroughi, Saeed Karbasi, Maryam Khoroushi, Abbas Ali Khademi

**Evaluation of PCL/chitosan electrospun nanofibers for liver tissue engineering**

*Journal:* International Journal of Polymeric Materials and Polymeric Biomaterials. 2017;

*Authors:* Dariush Semnani, Elham Naghashzargar, Mehdi Hadjianfar, Fahimeh Dehghan Manshadi, Sajjad Mohammadi, Saeed Karbasi, Farshid Effaty

**Effects of Multi-wall Carbon Nano-tubes (MWNTs) on Structural and Mechanical Properties of Electrospun Poly (3-hydroxybutyrate) Scaffold for Tissue Engineering Applications**

*Journal:* Scientia Iranica: F. 2016;

*Authors:* S. Karbasi, M. Zarei, M.R. Foroughi

**Evaluation of structural and mechanical properties of electrospun nano-micro hybrid of poly hydroxybutyrate chitosan/silk scaffold for cartilage tissue engineering**

*Journal:* Advanced Biomedical Research. 2016;

*Authors:* S. Karbasi, F. Fekrat, D. Semnani, Sh. Razavi, E. Naghash Zargar

**Preparation and characterization of poly (hydroxy butyrate)/ chitosan blend scaffolds for tissue engineering applications**

*Journal:* Advanced Biomedical Research. 2016;

*Authors:* S. Karbasi, S. Nouri Khorasani, S. Ebrahimi, Sh. Khalili, F. Fekrat, D. Sadeghi



**Optimizing the mechanical properties of a bi-layered knitted/nanofibrous esophageal prosthesis using artificial intelligence**

*Journal:* E-Polymers. 2016;

*Authors:* J. Yekrang, D. Semnani, S. Karbasi

**Evaluate the growth and adhesion of osteoblast cells on nanocomposite scaffold of hydroxyapatite/titania coated with poly hydroxybutyrate**

*Journal:* Advanced Biomedical Research. 2016;

*Authors:* B. Pourmollaabbassi, S. Karbasi, B. Hashemibeni

**Electrospun poly (hydroxybutyrate) /chitosan blend fibrous scaffolds for cartilage tissue engineering**

*Journal:* Journal of Applied Polymer Sciences. 2016;

*Authors:* D. Sadeghi, S. Karbasi, Sh. Razavi, S. Mohammadi, M. A. Shokrgozar, Sh. Bonakdar

**Evaluation of the effects of nano-TiO<sub>2</sub> on bioactivity and mechanical properties of nano bioglass-P3HB composite scaffold for bone tissue engineering**

*Journal:* Journal of Materials Science: Materials in Medicine. 2016;

*Authors:* S. Soleymani Eil Bakhtiyari, S. Karbasi, A. Monshi, M. Montazeri

**Characterization of PLGA/Chitosan Electrospun Nano-Biocomposite Fabricated by Two Different Methods**

*Journal:* International Journal of Polymeric Materials and Polymeric Biomaterials. 2015;

*Authors:* S. Vaezifar, SH. Razavi, M. A. Golozar, H. Zarkesh Esfahani, M. Morshed, S. Karbasi

**Nanobiocomposite of poly(lactide-co-glycolide)/chitosan electrospun scaffold can promote proliferation and transdifferentiation of Schwann-like cells from human adipose-derived stem cells**

*Journal:* Journal of Biomedical Materials Research A. 2015;

*Authors:* Sh. Razavi, H. Zarkesh-Esfahani, M. Morshed, S. Vaezifar, S. Karbasi, M.A. Golozar

**Evaluation of the effects of nano-TiO<sub>2</sub> on physical and mechanical properties of nano-bioglass 45S5 scaffold for bone tissue engineering**

*Journal:* Scientia Iranica: F. 2015;

*Authors:* S. Soleymani Eil Bakhtiyari, S. Karbasi, A. Monshi

**Cell Attachment and Proliferation of Human Adipose-Derived Stem Cells on PLGA/Chitosan Electrospun Nano-Biocomposite**

*Journal:* Cell Journal. 2015;

*Authors:* Sh. Razavi, S. Karbasi, M. Morshed, H. Zarkesh Esfahani, M. Golozar, S. Vaezifar

**Optimization of silk yarn hierarchical structure by genetic algorithm to design scaffolds**

*Journal:* Indian Journal of Fibre & Textile Research. 2015;

*Authors:* Elham Naghashzargar, Dariush Semnani, Saeed Karbasi

**Evaluation of Mechanical Property and Bioactivity of Nano-Bioglass 45S5 Scaffold Coated with Poly-3-hydroxybutyrate**

*Journal:* Journal of Materials Science: Materials in Medicine. 2015;  
*Authors:* Mahbobeh Montazeri, Saeed Karbasi, Mohammad Reza Foroughi, Ahmad Monshi, Reza Ebrahimi-Kahrizsangi

**Nano/micro hybrid scaffold of PCL or P3HB nanofibers combined with silk fibroin for tendon and ligament tissue engineering**

*Journal:* J Appl Biomater Funct Mater. 2015;  
*Authors:* Elham Naghashzargar, Silvia Farè, Valentina Catto, Serena Bertoldi, Dariush Semnani, Saeed Karbasi, Maria Cristina Tanzi

**Improving the Mechanical Properties of Wire-Rope Silk Scaffold by Artificial Neural Network in Tendon and Ligament Tissue Engineering**

*Journal:* Journal of Engineered Fibers and Fabrics. 2015;  
*Authors:* Elham Naghashzargar, Dariush Semnani, Saeed Karbasi

**Investigation on bioactivity and cytotoxicity of mesoporous nano-composite MCM-48/hydroxyapatite for ibuprofen drug delivery**

*Journal:* Ceramic International. 2014;  
*Authors:* Hoda Aghaei, AmirAbbas Nourbakhsh, Saeed Karbasi, Roozbeh JavadKalbasi, Mohammad Rafienia, Nosrat Nourbakhsh, Shahin Bonakdar, Kenneth J.D.Mackenzie

**Evaluation of Physical and Mechanical Properties of Hydroxyapatite/Titanium dioxide Composite Scaffold for Tissue Engineering Applications**

*Journal:* Journal of Materials and Advance Technology. 2014;  
*Authors:* Sotudeh Akbarpoor, Saeed Karbasi

**Evaluation of bioactivity poly-3-hydroxybutyrate coated Nano-Bioglass 45S5 composite scaffolds for bone tissue engineering**

*Journal:* Journal of Materials and Advance Technology. 2014;  
*Authors:* M. Montazeri, S. Karbasi, A. Monshi, R. Ebrahimi-kahrizsangi

**Characterization of PLGA/Chitosan Electrospun Nano- Biocomposite Fabricated by Two Different Methods**

*Journal:* International Journal of Polymeric Materials and Polymeric Biomaterials. 2014;  
*Authors:* Sedigheh Vaezifar, Shahnaz Razavi, Mohammad Ali Golozar, Hamid Zarkesh Esfahani, Mohammad Morshed, Saeed Karbasi

**Evaluation of Mechanical Property and Bioactivity of Nano-Bioglass 45S5 Scaffold Coated with Poly-3-hydroxybutyrate**

*Journal:* Journal of Materials and Advance Technology. 2014;  
*Authors:* M. Montazeri, S. Karbasi, A. Monshi, R. Ebrahimi-kahrizsangi

**Extremely low-frequency electromagnetic field influences the survival and proliferation effect of human adipose derived stem cells**

*Journal:* Advance Biomedical Journal. 2014;

*Authors:* Shahnaz Razavi, Marzieh Salimi, Daryoush Shahbazi-Gahrouei, Saeed Karbasi, Saeed Kermani

**Effect of Extremely Low-Frequency (50 Hz) Field on Proliferation Rate of Human Adipose-Derived Mesenchymal Stem Cells**

*Journal:* Journal of Isfahan Medical School. 2013;

*Authors:* Marzieh Salimi, Daryoush Shahbazi-Gahrouei, Saeed Karbasi, Saied Kermani, Shahnaz Razavi

**Effects of Some Parameters on Particle Size Distribution of Chitosan Nanoparticles Prepared by Ionic Gelation Method**

*Journal:* Journal of Cluster Science. 2013;

*Authors:* Sedigheh Vaezifar, Shahnaz Razavi, Mohammad Ali Golozar, Saeed Karbasi, Mohammad Morshed, Mahdi Kamali

**Application of intelligent neural network method for prediction of mechanical behavior of wire-rope scaffold in tissue engineering**

*Journal:* Journal of the Textile Institute. 2013;

*Authors:* Elham Naghashzargar, Dariush Semnani, Saeed Karbasi & Haleh Nekoe

**Physical and mechanical properties of a poly-3-hydroxybutyratecoated nanocrystalline Bioglass 45S5 scaffold for bone tissue engineering**

*Journal:* Journal of Materials and Advance Technology. 2013;

*Authors:* Mahboobeh Montazeri, Saeed Karbasi, Ahmad Monshi, Reza Ebrahimi-Kahrizsangi and Mohammad Reza Foroughi

**Effects of Bioglass Nanoparticles on Bioactivity and Mechanical Property of poly(3hydroxybutirate) Scaffolds**

*Journal:* Scientia Iranica(Nanotechnology). 2013;

*Authors:* Hadi Hajiali, Saeed Karbasi, Mohammad Hosseinalipour, Hamid Reza Rezaie

**Comparation of Acellular and Cellular Bioactivity of Poly 3-hydroxybutyrate/hydroxyapatite Nanocomposite and Poly 3-hydroxybutyrate Scaffolds**

*Journal:* Biotechnology and Bioprocess Engineering. 2013;

*Authors:* Abbas Saadat, A.A. Behnamghader, Saeed Karbasi, et al

**Mechanical Evaluation of nHAp Scaffold Coated with Poly-3-Hydroxybutyrate for Bone Tissue Engineering**

*Journal:* Journal of NanoScience and Nonotechnology. 2013;

*Authors:* Mohammad Reza Foroughi, Saeed Karbasi, Reza Ebrahimi

**Influence of Bioglass Nanoparticles on Biodegradation and Biocompatibility of poly(3hydroxybutyrate) Scaffolds**

*Journal:* International Journal of Artificial Organs. 2012;

*Authors:* Hadi Hajiali, Mohammad Hosseinalipour, Saeed Karbasi, Hamid Reza Rezaie

**Direct cytotoxicity evaluation of 63S bioactive glass and bone-derived hydroxyapatite particles using yeast model and human chondrocyte cells by microcalorimetry**

*Journal:* Journal of Materials Science: Materials in Medicine. 2011;

*Authors:* A. Doostmohammadi, A. Monshi, M. H. Fathi, S. Karbasi, O. Braissant, A. U. Daniels

**physical and mechanical properties of Poly-3 Hydroxybutyrate coated nanocrystalline hydroxyapatite scaffold for Bone Tissue Engineering**

*Journal:* Journal of Porous Materials. 2011;

*Authors:* M. R. Foroughi, S. Karbasi, R. Ebrahimi-Kahrizsangi

**Influence of calcinated and non calcinated nanobioglass particles on Hardness and bioactivity of sol-gel-derived TiO<sub>2</sub>-SiO<sub>2</sub> nano composite coatings on stainless steel substrates**

*Journal:* Journal of Materials Science: Materials in Medicine(in Press). 2011;

*Authors:* Mohammad Saleh Dadash, Saeed Karbasi, M. Nasr Esfahani, Mohammad Reza Ebrahimi, Hojatollah Vali

**The Bonding Strength, Hardness and Bioactivity of Nano Bioglass-Titania Nano composite Coating Deposited on NiTi Nails**

*Journal:* Current Nanoscience(in press). 2011;

*Authors:* Mohammad Saleh Dadash, Mojtaba Nasr-Esfahani, Reza Ebrahimi, Saeed Karbasi

**A comparative study on mechanical and adhesion properties of calcinated and non calcinated nanobioglass-titania nano composite coating on stainless steel substrates**

*Journal:* Scientia Nanotechnology. 2010;17(1):66-72

*Authors:* Mohammad saleh Dadash, M.Nasr Esfahani, R.Ebrahimi-Kahrizsangi, S.Karbasi, Hojatollah Vali

**Comparison of Physical-Mechanical properties of Bioglass-TiO<sub>2</sub> Nanocomposite Coating and their Bioactivity**

*Journal:* Majlesi Journal of Materials Engineering. 2010;4(2):1-8

*Authors:* M. Nasr-Esfahani, R. Ebrahimi, M.S. Dadash, S. Karbasi

**Effect of TGF3 and BMP6 Growth Factors on Chondrogenesis of Adipose Stem Cells on Alginate Scaffold**

*Journal:* Journal of Isfahan Medical School(in press). 2010;

*Authors:* B. Hashemibani, S. Razavi, E. Esfandiari, S. Karbasi, et al

**Experimental Investigation of Governing Parameters in Electrospinning Poly(3-Hydroxybutyrate) Scaffolds on Pores Structural Characteristics**

*Journal:* Journal of Applied Polymer Science. 2010;118(5):2682-2689

*Authors:* A.H. Tehrani, A. Zadhoush, S. Karbasi

**Preparation of a novel biodegradable nanocomposite scaffold based on poly (3-hydroxybutyrate)/ bioglass nanoparticles for bone tissue engineering**

*Journal:* Journal of Materials Science: Materials in Medicine. 2010;21(7):2125

*Authors:* Hadi Hajiali, Saeed Karbasi, Mohammad Hosseinalipour, Hamid Rezaie

**Scaffold Percolative Efficiency: in Vitro Evaluation of the Structural Criterion for Tissue Engineered Electrospun Mats**

*Journal:* Journal of Material Sciences: Materials in Medicine. 2010;

*Authors:* Ashkan Heidarkhan Tehrani, Ali Zadhoush, Saeed Karbasi, Hojjat Sadeghi-Aliabadi

**A Comparative Study of Articular Chondrocytes Metabolism on a Biodegradable Polyesterurethane Scaffold and Alginate Beads in Different Oxygen Tension and pH**

*Journal:* Journal of Isfahan Medical School. 2009;27(97):379-392

*Authors:* S. Karbasi

**Effect of BMP-6 Growth Factor on ADSCs Differentiation to Chondrocyte in Pellet Culture System**

*Journal:* Journal of Isfahan Medical School. 2009;27(100):618-631

*Authors:* Hashemibani B., Razavi S., Esfandiari E., Salehi M., Karbasi S. et al.

**Influence of Poly (lactide-co-glycolide) Type and Gamma Irradiation on the Betamethasone Acetate Release from the In Situ Forming Systems**

*Journal:* Current Drug Delivery. 2009;6:184-191

*Authors:* Mohammad Rafienia, Shahriar Hojjati Emami, Hamid Mirzadeh, Hamid Mobedi, Saeed Karbasi

**Induction of Chondrogenic differentiation of Human Adipose-Derived Stem Cells with TGF in Pellet Culture System**

*Journal:* Iranian Journal of Basic Medical Sciences. 2008;11(1):10-17

*Authors:* Hashemi-bani B., Razavi S., Esfandiari E., Karbasi S

**Evaluation of Hydrostatic Pressure on Metabolism of the Articular Chondrocytes Seeded on Biodegradable Polyurethane as Tissue Engineering Scaffold**

*Journal:* Journal of Isfahan Medical School(in english). 2007;(8):15-22

*Authors:* Karbasi S.

**A Comparison Between Cell Viability of Chondrocytes on a Biodegradable Polyester Urethane Scaffold and Alginate Beads in Different Oxygen Tension and pH**

*Journal:* Iranian Polymer Journal(in english). 2005;14(9):823-830

*Authors:* Saeed Karbasi, Hamid Mirzadeh, Fariba Orang, Jill Urban

**Effect of Physical Environment on Chondrocytes Seeded onto a Biodegradable Polyurethane Scaffold for Articular Cartilage Tissue Engineering**

*Journal:* Journal of Polymer Science and Technology(in farsi). 2005;6(80):383-390

*Authors:* Saeed Karbasi, Hamid Mirzadeh, Fariba Orang

**Swelling Behaviour and Cell Viability of Dehydrothermally Crosslinked Polyvinyl alcohol Hydrogel Grafted With N-vinylpyrrolidone or Acrylic Acid Using -Radiation**

*Journal:* Journal of Applied Polymer Science(in english). 2004;91(5):2862-2868

*Authors:* Esmaeel Jabbari, Saeed Karbasi

Etc.