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Personal Information

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Education Information

Doctorate, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Elektronik Anabilim Dalı, Turkey 1991 - 1999

Post Graduate, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Elektronik Anabilim Dalı, Turkey 1987 - 1991

Under Graduate, Marmara University, Faculty of Dentistry, Temel Bilimler Bölümü, Turkey 1977 - 1982

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, 2013 - Continues

Associate Professor, Bath Spa University College, Engineering, Mechanical Engineering, 2012 - 2012

Associate Professor, Marmara University, Vocational School of Health Services, Medical Services and Techniques Department, 2000 - 2011

Assistant Professor, Marmara University, Faculty of Engineering, 2003 - 2008

Assistant Professor, Marmara University, Yeni Teknolojiler Araştırma Ve Geliştirme Merkezi, 2001 - 2003

Assistant Professor, Marmara University, Vocational School of Technical Sciences, 1999 - 2001

Research Assistant, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, 1992 - 1998

Professional Experience

Head of Department, Marmara University, Vocational School of Technical Sciences, 2000 - 2001

Advising Theses

OKTAR F. N., Oktar F., 3D printing of soft tissue engineered constructs for skin reconstruction, Post Graduate, H.Merve(Student), 2019

OKTAR F. N., Preparation of 3D printed bacterial cellulose based hydrogel for bone tissue engineering, Post Graduate, A.Mükremin(Student), 2019

SALMAN S., OKTAR F. N., Plazma püskürtme yöntemiyle üretilen hidroksiapatit-cam kompozit kaplamaların

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

- I. **In vivo assessment of bone enhancement in the case of 3d-printed implants functionalized with lithium-doped biological-derived hydroxyapatite coatings: A preliminary study on rabbits**
Duta L., Neamtu J., Melinte R. P. , Zureigat O. A. , Popescu-Pelin G., Chioibas D., OKTAR F. N. , Popescu A. C.
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- IV. **3D Printed Polycaprolactone/Gelatin/Bacterial Cellulose/Hydroxyapatite Composite Scaffold for Bone Tissue Engineering**
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- V. **Improvement of antibacterial and biocompatibility properties of electrospray biopolymer films by ZnO and MCM-41**
Mutlu E. C. , YILDIRIM A., Yildirm M., Ficai A., Ficai D., OKTAR F. N. , Titu M., ÇETİNKAYA A., Demir A.
POLYMER BULLETIN, vol.77, pp.3657-3675, 2020 (Journal Indexed in SCI)
- VI. **Polycaprolactone/Gelatin/Hyaluronic Acid Electrospun Scaffolds to Mimic Glioblastoma Extracellular Matrix**
Ünal S., Arslan S., Yilmaz B., Oktar F. N. , Ficai D., Ficai A., Gündüz O.
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- VII. **3D printed artificial cornea for corneal stromal transplantation**
Ulag S., Ilhan E., Şahin A., Karademir Yilmaz B., Kalaskar D. M. , Ekren N., Kılıç O., Nuzhet Oktar F. N. , Gündüz O.
EUROPEAN POLYMER JOURNAL, vol.133, 2020 (Journal Indexed in SCI)
- VIII. **Glioblastoma cell adhesion properties through bacterial cellulose nanocrystals in polycaprolactone/gelatin electrospun nanofibers**
Ünal S., Arslan S., Karademir Yilmaz B., Kazan D., Oktar F. N. , Gündüz O.
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- IX. **Antimicrobial and Cytocompatible Bovine Hydroxyapatite-Alumina-Zeolite Composite Coatings Synthesized by Pulsed Laser Deposition from Low-Cost Sustainable Natural Resources**
Popescu-Pelin G., Ristoscu C., Duta L., Stan G. E. , Pasuk I., Tite T., Stan M. S. , Bleotu C., Popa M., Chifriuc M. C. , et al.
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- X. **Indocyanine green based fluorescent polymeric nanoprobe for in vitro imaging**
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- XII. **Investigation of 3D-Printed Polycaprolactone-/Polyvinylpyrrolidone-Based Constructs**

Izgordu M. S. , Uzgur E. I. , Ulag S., Şahin A., Yilmaz B., Kilic B., Ekren N., Oktar F. N. , Gündüz O.
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- XIII. **Comparative Analysis of NF-κB in the MyD88-Mediated Pathway After Implantation of Titanium Alloy and Stainless Steel and the Role of Regulatory T Cells**
Akyol S., Akgun M. Y. , Yetmez M., Hanci M., OKTAR F. N. , Ben-Nissan B.
World Neurosurgery, 2020 (Journal Indexed in SCI Expanded)
- XIV. **3D Printing of Gelatine/Alginate/beta-Tricalcium Phosphate Composite Constructs for Bone Tissue Engineering**
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- XV. **3D bio-printing of levan/polycaprolactone/gelatin blends for bone tissue engineering: Characterization of the cellular behavior**
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European Polymer Journal, vol.119, pp.426-437, 2019 (Journal Indexed in SCI)
- XVI. **Developments of 3D polycaprolactone/beta-tricalcium phosphate/collagen scaffolds for hard tissue engineering**
aydoğdu M. O. , MUTLU B., Kurt M., İNAN A. T. , KURUCA D. S. , Erdemir G., ŞAHİN Y. M. , EKREN N., OKTAR F. N. , GÜNDÜZ O.
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- XVII. **Encapsulated melatonin in polycaprolactone (PCL) microparticles as a promising graft material**
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- XVIII. **Design and characterization of polycaprolactone-gelatin-graphene oxide scaffolds for drug influence on glioblastoma cells**
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- XIX. **Preparation and characterization of electrospun polylactic acid/sodium alginate/orange oyster shell composite nanofiber for biomedical application**
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- XX. **Production of the biomimetic small diameter blood vessels for cardiovascular tissue engineering**
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Ege Z. R. , AKAN A., OKTAR F. N. , Lin C., KARADEMİR B., GÜNDÜZ O.
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- XXV. **Chitosan/poly(ethylene glycol)/hyaluronic acid biocompatible patches obtained by electrospaying**
MUTLU E., Fıcaı A., Fıcaı D., YILDIRIM A., YILDIRIM M., OKTAR F. N. , Demir A.
BIOMEDICAL MATERIALS, vol.13, 2018 (Journal Indexed in SCI)
- XXVI. **Synthesis, characterization, and biological properties of composites of hydroxyapatite and hexagonal boron nitride**
ÜNAL S., EKREN N., Sengil A. Z. , OKTAR F. N. , Irmak S., Oral O., Sahin Y. M. , KILIÇ O., Agathopoulos S., GÜNDÜZ O.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.106, pp.2384-2392, 2018 (Journal Indexed in SCI)
- XXVII. **Development of Amoxicillin-Loaded Electrospun Polyurethane/Chitosan/ beta-Tricalcium Phosphate Scaffold for Bone Tissue Regeneration**
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- XXX. **Production of the novel fibrous structure of poly(epsilon-caprolactone)/tri-calcium phosphate/hexagonal boron nitride composites for bone tissue engineering**
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- XXXI. **The natural nano-bioceramic powder production from organ pipe red coral (Tubipora musica) by a simple chemical conversion method**
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- XXXII. **Physical-chemical characterization and biological assessment of simple and lithium-doped biological-derived hydroxyapatite thin films for a new generation of metallic implants**
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- XXXIV. **Production and characterization of electrospun fish sarcoplasmicprotein based nanofibers**
Şahin Y. M. , Su S., Özbek B., Yücel S., Pınar O., Kazan D., Oktar F. N. , Ekren N., Gündüz O.
Journal Of Food Engineering, vol.222, no.1, pp.54-62, 2017 (Journal Indexed in SCI Expanded)
- XXXV. **Comparative physical, chemical and biological assessment of simple and titanium-doped ovine dentine-derived hydroxyapatite coatings fabricated by pulsed laser deposition**
Duta L., Mihailescu N., Popescu A. C. , Luculescu C. R. , Mihailescu I. N. , Cetin G., Gunduz O., Oktar F. N. , Popa A. C. , Kuncser A., et al.
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- XXXVI. **Sintering effects of mullite-doping on mechanical properties of bovine hydroxyapatite**
Yetmez M., Erkmen Z. E. , Kalkandelen C., Fıcaı A., Oktar F. N.

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- XXXVII. **Part 2: biocompatibility evaluation of hydroxyapatite-based clinoptilolite and Al₂O₃ composites**
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Kalkandelen C., Gunduz O., Akan A., Oktar F. N.
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- XXXIX. **Starch/PCL composite nanofibers by co-axial electrospinning technique for biomedical applications**
Komur B., Bayrak F., Ekren N., Eroglu M. S., Oktar F. N., Sinirlioglu Z. A., Yucel S., Guler O., Gunduz O.
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- XL. **Physical Characterization of Turbot Psetta maxima Originated Natural Hydroxyapatite**
İnan A. T., Kömür B. H., Ekren N., Aydogdu M. O., Gokce H., Fikai A., Salman S., Oktar F. N., Gündüz O.
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- XLI. **Physical characterization of turbot (Psetta maxima) originated natural hydroxyapatite**
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- XLIII. **HYDROXYAPATITE SYNTHESIS FROM FISH BONES ATLANTIC SALMON SALMON SALAR**
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- XLIV. **Hydroxyapatite synthesis from fish bones: Atlantic Salmon (Salmon salar)**
Komur B., Altun E., Aydogdu M. O., Bilgic D., Gokce H., Ekren N., Salman S., Inan A. T., Oktar F. N., Gunduz O.
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- XLV. **Characterization of Cu Ag Eu Hydroxyapatites Composites by Using Wet Chemical Precipitation**
Kömür B. H., Ozturk R. E., Ekren N., İnan A. T., Gündüz O., Andronescu E., Fikai A., Oktar F. N.
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- XLVI. **Drug delivery systems for dental applications**
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- XLVIII. **Production of the novel fibrous structure of poly (ϵ -caprolactone)/tri-calcium phosphate/hexagonal boron nitride composites for bone tissue engineering**
Özbek B., Erdoğan B., EKREN N., OKTAR F. N., AKYOL S., Ben Nissan B., TÜRKOĞLU ŞAŞMAZEL H., KALKANDELEN C., Mergen A., KURUCA D. S., et al.
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- L. **Journal of Nanomaterials Volume 2016 2016 Nanomaterials for Medical Applications Benefits and Risks**
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- LI. **Structural, compositional, mechanical characterization and biological assessment of bovine-derived**

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LIII. Nanotechnology in dentistry

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LIV. Crystallization of leucite in potassium-alumino-silicate glasses

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LV. Nano-Bioceramic Synthesis from Tropical Sea Snail Shells (Tiger Cowrie - *Cypraea Tigris*) with Simple Chemical Treatment

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LIX. Preparation and evaluation of cerium oxide-bovine hydroxyapatite composites for biomedical engineering applications

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Tamasan M., Ozyegin L. S., Oktar F. N., Simon V.

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Samur R., Ozyegin L., Agaogullari D., Oktar F. N., Agathopoulos S., Kalkandelen C., Duman I., Ben-Nissan B.
METALURGIJA, vol.52, pp.375-378, 2013 (Journal Indexed in SCI)
- LXVII. **Influence of Commercial Inert Glass Addition on the Mechanical Properties of Commercial Synthetic Hydroxyapatite**
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