

Prof.Dr. FAİK NÜZHET OKTAR

Kişisel Bilgiler

E-posta: foktar@marmara.edu.tr

Eğitim Bilgileri

Doktora, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Elektronik Anabilim Dalı, Türkiye 1991 - 1999

Yüksek Lisans, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Elektronik Anabilim Dalı, Türkiye 1987 - 1991

Lisans, Marmara Üniversitesi, Dış Hekimliği Fakültesi, Temel Bilimler Bölümü, Türkiye 1977 - 1982

Yabancı Diller

İngilizce, B2 Orta Üstü

Araştırma Alanları

Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, 2013 - Devam Ediyor

Doç.Dr., Bath Spa University College, Engineering, Mechanical Engineering, 2012 - 2012

Doç.Dr., Marmara Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2000 - 2011

Yrd.Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, 2003 - 2008

Yrd.Doç.Dr., Marmara Üniversitesi, Yeni Teknolojiler Araştırma Ve Geliştirme Merkezi, 2001 - 2003

Yrd.Doç.Dr., Marmara Üniversitesi, Teknik Bilimler Meslek Yüksekokulu, 1999 - 2001

Araştırma Görevlisi, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, 1992 - 1998

Mesleki Deneyim

Bölüm Başkanı, Marmara Üniversitesi, Teknik Bilimler Meslek Yüksekokulu, 2000 - 2001

Yönetilen Tezler

OKTAR F. N. , Oktar F. , 3D printing of soft tissue engineered constructs for skin reconstruction, Yüksek Lisans, H.Merve(Öğrenci), 2019

OKTAR F. N. , Preparation of 3D printed bacterial cellulose based hydrogel for bone tissue engineering, Yüksek Lisans, A.Mükremin(Öğrenci), 2019

SALMAN S, OKTAR F. N. , Plazma püskürtme yöntemiyle üretilen hidroksiapatit-cam kompozit kaplamaların karakterizasyonu, Yüksek Lisans, İ.Akın(Öğrenci), 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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**
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- III. **Development of Satureja cuneifolia-loaded sodium alginate/polyethylene glycol scaffolds produced by 3D-printing technology as a diabetic wound dressing material**
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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**
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- VI. **Polycaprolactone/Gelatin/Hyaluronic Acid Electrospun Scaffolds to Mimic Glioblastoma Extracellular Matrix**
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- VII. **3D printed artificial cornea for corneal stromal transplantation**
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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**
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- X. **Indocyanine green based fluorescent polymeric nanoprobe for in vitro imaging**
Ege Z. R. , Akan A., Oktar F. N. , Lin C. C. , Kuruca D. S. , Karademir B., Sahin Y. M. , Erdemir G., Gündüz O.
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- XII. **Investigation of 3D-Printed Polycaprolactone-/Polyvinylpyrrolidone-Based Constructs**
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- XIII. **Comparative Analysis of NF- κ B in the MyD88-Mediated Pathway After Implantation of Titanium Alloy**

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- 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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- 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 poly(lactic acid)/sodium alginate/orange oyster shell composite nanofiber for biomedical application**
Cesur S., OKTAR F. N., EKREN N., KILIÇ O., Bilgiç Alkaya D., AYAZ SEYHAN S., Rüya Ege Z., Lin C. C., KURUCA D. S., Erdemir G., et al.
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- XX. **Production of the biomimetic small diameter blood vessels for cardiovascular tissue engineering**
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- XXI. **3D Printing Artificial Blood Vessel Constructs Using PCL/Chitosan/Hydrogel Biocomposites**
Ulag S., Kalkandelen C., OKTAR F. N., UZUN M., ŞAHİN Y. M., KARADEMİR B., Arslan S., Ozbolat I. T., Mahirogullari M., GÜNDÜZ O.
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- XXII. **Nanofibrous wound dressing material by electrospinning method**
Yeniay E., Ocal L., Altun E., Giray B., OKTAR F. N., İNAN A. T., EKREN N., KILIÇ O., GÜNDÜZ O.
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- XXIII. **Novel electrospun polycaprolactone/graphene oxide/Fe3O4 nanocomposites for biomedical applications**
Aydogdu M. O., EKREN N., Suleymanoglu M., Erdem-Kuruca S., Lin C., Bulbul E., Erdol M. N., OKTAR F. N., TERZİ Ü. K., KILIÇ O., et al.
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- XXIV. **Encapsulation of indocyanine green in poly(lactic acid) nanofibers for using as a nanoprobe in biomedical diagnostics**
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- XXV. **Chitosan/poly(ethylene glycol)/hyaluronic acid biocompatible patches obtained by electrospraying**
MUTLU E., FICAI A., FICAI D., YILDIRIM A., YILDIRIM M., OKTAR F. N. , Demir A.
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- XXVI. **Synthesis, characterization, and biological properties of composites of hydroxyapatite and hexagonal boron nitride**
ÜNAL S., EKREN N., SENGİL A. Z. , OKTAR F. N. , IRMAK S., ORAL O., SAHİN Y. M. , KILIÇ O., AGATHOPOULOS S., GÜNDÜZ O.
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- XXVII. **Development of Amoxicillin-Loaded Electrospun Polyurethane/Chitosan/ beta-Tricalcium Phosphate Scaffold for Bone Tissue Regeneration**
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- XXVIII. **Development of Amoxicillin-Loaded Electrospun Polyurethane/Chitosan/ β -Tricalcium Phosphate Scaffold for Bone Tissue Regeneration**
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- XXIX. **Effects of Polymethylsilsesquioxane concentration on morphology shape of electrosprayed particles**
ÜNAL S., OKTAR F. N. , GÜNDÜZ O.
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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**
ÖZBEK B., ERDOĞAN B., EKREN N., OKTAR F. N. , AKYOL S., BEN-NISSAN B., SASMAZEL H. T. , KALKANDELEN C., MERGEN A., KURUCA S. E. , et al.
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- XXXI. **The natural nano-bioceramic powder production from organ pipe red coral (Tubipora musica) by a simple chemical conversion method**
KARACAN I., GÜNDÜZ O., ÖZYEGIN L. S. , GOKCE H., BEN-NISSAN B., AKYOL S., OKTAR F. N.
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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**
POPESCU A. C. , FLORIAN P., STAN G., POPESCU-PELIN G., ZGURA I., ENULESCU M., OKTAR F. N. , TRUŞÇA R. D. , SIMA L. E. , ROŞEANU A. M. , et al.
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- XXXIII. **Production and characterization of electrospun fish sarcoplasmic protein based nanofibers**
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JOURNAL OF FOOD ENGINEERING, cilt.222, ss.54-62, 2018 (SCI İndekslerine Giren Dergi)
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Journal Of Food Engineering, cilt.222, no.1, ss.54-62, 2017 (SCI Expanded İndekslerine Giren Dergi)
- 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. , KUNCSEER A., et al.
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- XXXVI. **Sintering effects of mullite-doping on mechanical properties of bovine hydroxyapatite**
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- XXXVII. **Part 2: biocompatibility evaluation of hydroxyapatite-based clinoptilolite and Al₂O₃ composites**

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- XXXIX. **Starch/PCL composite nanofibers by co-axial electrospinning technique for biomedical applications**
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- XL. **Physical Characterization of Turbot Psetta maxima Originated Natural Hydroxyapatite**
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- XLI. **Physical characterization of turbot (Psetta maxima) originated natural hydroxyapatite**
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- XLII. **Characterization of Cu/Ag/Eu/hydroxyapatite composites produced by wet chemical precipitation**
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- XLIII. **HYDROXYAPATITE SYNTHESIS FROM FISH BONES ATLANTIC SALMON SALMON SALAR**
 Kömür B. H., Altun E., Aydogdu M. O., Bilgiç Alkaya D., Gokce H., Ekren N., Salman S., İnan A. T., Oktar F. N., Gündüz O.
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- XLIV. **Hydroxyapatite synthesis from fish bones: Atlantic Salmon (Salmon salar)**
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- XLV. **Characterization of Cu Ag Eu Hydroxyapatites Composites by Using Wet Chemical Precipitation**
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- XLVI. **Drug delivery systems for dental applications**
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- XLVII. **Hydroxyapatite Synthesis from Fish Bones: Atlantic Salmon (Salmon Salar)**
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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**
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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 hydroxyapatite coatings reinforced with MgF₂ or MgO for implants functionalization**
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- LII. **Tissue Engineering Scaffolds from La2O3 - Hydroxyapatite\Boron Glass Composites**
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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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- LVI. **Molecular Mechanism and Targets of the Antimicrobial Activity of Metal Nanoparticles**
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- LVII. **Conversion of Ostrich Eggshells (Struthio camelus) to Calcium Phosphates**
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- LVIII. **Comparative study of Coral Conversion, Part 2: Microstructural evolution of calcium phosphate**
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