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Kişisel Bilgiler

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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, Diş 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

Akademik İdari Deneyim

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.Mükrem(Öğrenci), 2019

SALMAN S., OKTAR F. N., Plazma püskürme yöntemiyle üretilen hidroksiyapatit-cam kompozit kaplamaların karakterizasyonu, Yüksek Lisans, İ.Akin(Öğrenci), 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. Synthetic and Biological-Derived Hydroxyapatite Implant Coatings

Duta L., OKTAR F. N.

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II. Effects of temperature and pH on the synthesis of nanohydroxyapatite powders by chemical precipitation

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III. Synthesis and characterization of interpenetrating network (IPN) based levan-polyacrylamide hydrogels and their application in conservation of cultural heritage

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Journal of Cultural Heritage, cilt.64, ss.255-265, 2023 (SCI-Expanded)

IV. An Eco-Friendly Process to Extract Hydroxyapatite from Sheep Bones for Regenerative Medicine: Structural, Morphologic and Electrical Studies

Gavinho S. R., Bozdag M., KALKANDELEN C., Regadas J. S., Jakka S. K., GÜNDÜZ O., OKTAR F. N., Graça M. P. F. Journal of Functional Biomaterials, cilt.14, sa.5, 2023 (SCI-Expanded)

V. A Novel Strategy as a Potential Rapid Therapy Modality in the Treatment of Corneal Ulcers: Fluconazole/Vancomycin Dual Drug-Loaded Nanofibrous Patches

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VI. Hydroxyapatite Thin Films of Marine Origin as Sustainable Candidates for Dental Implants

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VII. Marine-derived bioceramics for orthopedic, reconstructive and dental surgery applications

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VIII. Preparation and characterization of pure natural hydroxyapatite derived from seashells for controlled drug delivery

AYAZ SEYHAN S., Alkaya D., Cesur S., OKTAR F. N., GÜNDÜZ O.

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IX. Investigation of 3D-Printed Polycaprolactone-/Polyvinylpyrrolidone-Based Constructs

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X. Levodopa-Loaded 3D-Printed Poly (Lactic) Acid/Chitosan Neural Tissue Scaffold as a Promising Drug Delivery System for the Treatment of Parkinson's Disease

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- XII. Comparative Analysis of NF- κ B in the MyD88-Mediated Pathway After Implantation of Titanium Alloy and Stainless Steel and the Role of Regulatory T Cells
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- XIII. Development of *Satureja cuneifolia*-loaded sodium alginate/polyethylene glycol scaffolds produced by 3D-printing technology as a diabetic wound dressing material
Ilhan E., Cesur S., Guler E., Topal F., Albayrak D., Guncu M. M., Cam M. E., Taskin T., Sasmazel H. T., Aksu B., et al.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.161, ss.1040-1054, 2020 (SCI-Expanded)
- XIV. 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., Chioibasu D., OKTAR F. N., Popescu A. C.
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- XV. 3D Printed Polycaprolactone/Gelatin/Bacterial Cellulose/Hydroxyapatite Composite Scaffold for Bone Tissue Engineering
Cakmak A., Unal S., Sahin A., Oktar F. N., Sengor M., Ekren N., Gunduz O., Kalaskar D.
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- XVI. 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., ÇETINKAYA A., Demir A.
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- XVII. 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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- XVIII. 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, cilt.133, 2020 (SCI-Expanded)
- XIX. Glioblastoma cell adhesion properties through bacterial cellulose nanocrystals in polycaprolactone/gelatin electrospun nanofibers
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- XX. 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., Chifiriuc M. C., et al.
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- XXI. Synthesis and characterization of antibacterial drug loaded β -tricalcium phosphate powders for bone engineering applications
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- XXII. Indocyanine green based fluorescent polymeric nanoprobes for in vitro imaging
Ege Z. R., Akan A., Oktar F. N., Lin C. C., Kurucu D. S., Karademir B., Sahin Y. M., Erdemir G., Gündüz O.
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- XXIII. 3D Printing of Gelatine/Alginate/beta-Tricalcium Phosphate Composite Constructs for Bone Tissue Engineering
Kalkandelen C., Ulag S., Ozbek B., Eroglu G. O., Ozerkan D., Kurucu S. E., Oktar F. N., Sengor M., Gündüz O.
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- XXIV. 3D bio-printing of levan/polycaprolactone/gelatin blends for bone tissue engineering:

Characterization of the cellular behavior

Duymaz B., Erdiler F. B., Alan T., Aydogdu M. O., İnan A. T., Ekren N., Uzun M., Sahin Y. M., Bulus E., Oktar F. N., et al.

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- XXV. **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.

JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, cilt.55, sa.3, ss.849-855, 2019 (SCI-Expanded)

- XXVI. **Encapsulated melatonin in polycaprolactone (PCL) microparticles as a promising graft material**

Gurler E. B., Ergul N. M., Ozbek B., Ekren N., Oktar F. N., Haskoylu M. E., Oner E., Eroğlu M. S., Özbeysi D., Korkut V., et al.

MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.100, ss.798-808, 2019 (SCI-Expanded)

- XXVII. **Design and characterization of polycaprolactone-gelatin-graphene oxide scaffolds for drug influence on glioblastoma cells**

Ünal S., Arslan S., Gokce T., Atasoy B. M., Karademir B., Oktar F. N., Gündüz O.

European Polymer Journal, cilt.115, ss.157-165, 2019 (SCI-Expanded)

- XXVIII. **Bioactivity of Hydroxyapatite Produced from Sea Snail Turritella Terebra**

Orman Z., YÜCEL S., Sahin Y. M., GÜNDÜZ O., OKTAR F. N.

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- XXIX. **Preparation and characterization of electrospun polylactic 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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- XXX. **Production of the biomimetic small diameter blood vessels for cardiovascular tissue engineering**

Aydogdu M. O., Chou J., Altun E., EKREN N., Cakmak S., Eroglu M., Osman A. A., Kutlu O., Oner E. T., Avsar G., et al.

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- XXXI. **Nanofibrous wound dressing material by electrospinning method**

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- XXXII. **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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- XXXIII. **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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- XXXIV. **Encapsulation of indocyanine green in poly(lactic acid) nanofibers for using as a nanoprobe in biomedical diagnostics**

Ege Z. R., AKAN A., OKTAR F. N., Lin C., KARADEMİR B., GÜNDÜZ O.

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- XXXV. **Chitosan/poly(ethylene glycol)/hyaluronic acid biocompatible patches obtained by electrospraying**

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- XXXVI. **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, cilt.106, sa.6, ss.2384-2392, 2018 (SCI-Expanded)

- XXXVII. **Development of amoxicillin-loaded electrospun polyurethane/Chitosan/β-tricalcium phosphate scaffold for bone tissue regeneration**

Topsakal A., Uzun M., Ugar G., Özcan A., Altun E., Oktar F. N., Ikram F., Özkan O., Türkoglu Şaşmazel H., Gündüz O. IEEE Transactions on Nanobioscience, cilt.17, sa.3, ss.321-328, 2018 (SCI-Expanded)

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- XXXIX. **Effects of Polymethylsilsesquioxane concentration on morphology shape of electrosprayed particles**

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- XL. **The natural nano-bioceramic powder production from organ pipe red coral (*Tubipora musica*) by a simple chemical conversion method**

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- XLI. **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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- XLII. **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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- XLIII. **Production and characterization of electrospun fish sarcoplasmic protein based nanofibers**

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- XLV. **Comparative physical, chemical and biological assessment of simple and titanium-doped ovine dentine-derived hydroxyapatite coatings fabricated by pulsed laser deposition**

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- XLVI. **Sintering effects of mullite-doping on mechanical properties of bovine hydroxyapatite**

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- XLVII. **Part 2: biocompatibility evaluation of hydroxyapatite-based clinoptilolite and Al2O3 composites**

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- XLVIII. **Part 1: clinoptilolite-alumina-hydroxyapatite composites for biomedical engineering**

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- XLIX. Starch/PCL composite nanofibers by co-axial electrospinning technique for biomedical applications**
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- L. Physical characterization of turbot (*Psetta maxima*) originated natural hydroxyapatite**
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- LI. Characterization of Cu Ag Eu Hydroxyapatites Composites by Using Wet Chemical Precipitation**
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- LII. Hydroxyapatite Synthesis from Fish Bones: Atlantic Salmon (Salmon Salar)**
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- LIII. Characterization of Cu/Ag/Eu/hydroxyapatite composites produced by wet chemical precipitation**
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- LIV. Drug delivery systems for dental applications**
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Current Organic Chemistry, cilt.21, ss.64-73, 2017 (SCI-Expanded)
- LV. 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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- LVI. Fabrication of naturel pumice/hydroxyapatite composite for biomedical engineering**
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- LVII. Journal of Nanomaterials Volume 2016 2016Nanomaterials for Medical Applications Benefits and Risks**
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- LVIII. Structural, compositional, mechanical characterization and biological assessment of bovine-derived hydroxyapatite coatings reinforced with MgF₂ or MgO for implants functionalization**
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- LIX. Nanotechnology in dentistry**
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- LX. Tissue Engineering Scaffolds from La₂O₃ - Hydroxyapatite\Boron Glass Composites**
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- LXI. Crystallization of leucite in potassium-alumino-silicate glasses**
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- LXII. Nano-Bioceramic Synthesis from Tropical Sea Snail Shells (Tiger Cowrie - Cypraea Tigris) with Simple Chemical Treatment**
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- LXIII. Molecular Mechanism and Targets of the Antimicrobial Activity of Metal Nanoparticles**

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- LXXIII. Mechanical behaviour of PCL fibers**
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