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Education Information

Doctorate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey 1991 - 1999

Postgraduate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey 1987 - 1991

Undergraduate, 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, Bogazici University, Institute Of Biomedical Engineering, 1992 - 1998

Academic and Administrative Experience

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, Postgraduate, H.Merve(Student), 2019

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

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

- I. **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.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, 2022 (Journal Indexed in SCI)
- II. **Investigation of 3D-Printed Polycaprolactone-/Polyvinylpyrrolidone-Based Constructs**
Izgordu M. S. , Uzgur E. I. , Ulag S., Şahin A., Yılmaz B., Kilic B., Ekren N., Oktar F. N. , Gündüz O.
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- III. **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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- IV. **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.
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- V. **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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- VI. **Development of Satureja cuneifolia-loaded sodium alginate/polyethylene glycol scaffolds produced by 3D-printing technology as a diabetic wound dressing material**
İlhan 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, vol.161, pp.1040-1054, 2020 (Journal Indexed in SCI)
- VII. **Production and characterization of bacterial cellulose scaffold and its modification with hyaluronic acid and gelatin for glioblastoma cell culture**
Ünal S., Arslan S., Yılmaz B., Oktar F. N. , Sengil A. Z. , Gündüz O.
CELLULOSE, 2020 (Journal Indexed in SCI)
- VIII. **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.
POLYMERS, vol.12, no.9, 2020 (Journal Indexed in SCI)
- IX. **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, no.7, pp.3657-3675, 2020 (Journal Indexed in SCI)
- X. **Polycaprolactone/Gelatin/Hyaluronic Acid Electrospun Scaffolds to Mimic Glioblastoma Extracellular Matrix**
Ünal S., Arslan S., Yılmaz B., Oktar F. N. , Ficai D., Ficai A., Gündüz O.
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- XI. **3D printed artificial cornea for corneal stromal transplantation**
Ulag S., İlhan E., Şahin A., Karademir Yılmaz B., Kalaskar D. M. , Ekren N., Kılıç O., Nuzhet Oktar F. N. , Gündüz O.
EUROPEAN POLYMER JOURNAL, vol.133, 2020 (Journal Indexed in SCI)
- XII. **Glioblastoma cell adhesion properties through bacterial cellulose nanocrystals in polycaprolactone/gelatin electrospun nanofibers**

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CARBOHYDRATE POLYMERS, vol.233, 2020 (Journal Indexed in SCI)

- XIII. **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.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.8, no.10, pp.4026-4036, 2020 (Journal Indexed in SCI)
- XIV. **Synthesis and characterization of antibacterial drug loaded β -tricalcium phosphate powders for bone engineering applications**
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- XV. **Indocyanine green based fluorescent polymeric nanoprobe for in vitro imaging**
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- XVI. **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., Kuruca S. E. , Oktar F. N. , Sengor M., Gündüz O.
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- XVII. **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)
- XVIII. **Developments of 3D polycaprolactone/beta-tricalcium phosphate/collagen scaffolds for hard tissue engineering**
aydođdu 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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- XIX. **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., Erođlu M. S. , Özbeyli D., Korkut V., et al.
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- XX. **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.
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- XXI. **Bioactivity of Hydroxyapatite Produced from Sea Snail Turritella Terebra**
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- XXII. **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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- XXIII. **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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- XXIV. **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.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.68, pp.11-18, 2019
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- XXV. **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.
CHEMISTRYSELECT, vol.4, no.8, pp.2387-2391, 2019 (Journal Indexed in SCI)
- XXVI. **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.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.172, pp.718-727, 2018 (Journal Indexed in SCI)
- XXVII. **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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- XXVIII. **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, no.5, 2018 (Journal Indexed in SCI)
- XXIX. **Synthesis, characterization, and biological properties of composites of hydroxyapatite and hexagonal boron nitride**
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- XXX. **Development of amoxicillin-loaded electrospun polyurethane/Chitosan/ β -tricalcium phosphate scaffold for bone tissue regeneration**
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IEEE Transactions on Nanobioscience, vol.17, no.3, pp.321-328, 2018 (Journal Indexed in SCI Expanded)
- XXXI. **Development of Amoxicillin-Loaded Electrospun Polyurethane/Chitosan/ beta-Tricalcium Phosphate Scaffold for Bone Tissue Regeneration**
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IEEE TRANSACTIONS ON NANOBIOSCIENCE, vol.17, no.3, pp.321-328, 2018 (Journal Indexed in SCI)
- XXXII. **Effects of Polymethylsilsesquioxane concentration on morphology shape of electrospayed particles**
ÜNAL S., OKTAR F. N. , GÜNDÜZ O.
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- XXXIII. **Production of the novel fibrous structure of poly(epsilon-caprolactone)/tri-calcium phosphate/hexagonal boron nitride composites for bone tissue engineering**
Ozbek B., Erdogan 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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- XXXIV. **The natural nano-bioceramic powder production from organ pipe red coral (Tubipora musica) by a simple chemical conversion method**
Karacan I., GÜNDÜZ O., Ozyegin L. S. , Gokce H., Ben-Nissan B., Akyol S., OKTAR F. N.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.54, no.2, pp.317-329, 2018 (Journal Indexed in SCI)
- XXXV. **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., Enculescu M., OKTAR F. N. , Truşca R. D. , Sima L. E. , Roşeanu A. M. , et al.
APPLIED SURFACE SCIENCE, vol.439, pp.724-735, 2018 (Journal Indexed in SCI)
- XXXVI. **Production and characterization of electrospun fish sarcoplasmic protein based nanofibers**

- ŞAHİN Y. M. , Su S., Ozbek B., YÜCEL S., PİNAR O., KAZAN D., OKTAR F. N. , EKREN N., GÜNDÜZ O.
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- XXXVII. **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)
- XXXVIII. **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.
APPLIED SURFACE SCIENCE, vol.413, pp.129-139, 2017 (Journal Indexed in SCI)
- XXXIX. **Sintering effects of mullite-doping on mechanical properties of bovine hydroxyapatite**
Yetmez M., Erkmén Z. E. , Kalkandelen C., Fıcaı A., Oktar F. N.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.77, pp.470-475, 2017 (Journal Indexed in SCI)
- XL. **Part 1: clinoptilolite-alumina-hydroxyapatite composites for biomedical engineering**
Kalkandelen C., Gunduz O., Akan A., Oktar F. N.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.53, no.1, pp.91-99, 2017 (Journal Indexed in SCI)
- XLI. **Part 2: biocompatibility evaluation of hydroxyapatite-based clinoptilolite and Al₂O₃ composites**
Kalkandelen C., Suleymanoglu M., Kuruca S. E. , Akan A., Oktar F. N. , Gunduz O.
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- XLII. **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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- XLIII. **Characterization of Cu/Ag/Eu/hydroxyapatite composites produced by wet chemical precipitation**
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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. **Physical characterization of turbot (Psetta maxima) originated natural hydroxyapatite**
Inan A. T. , Komur B., Ekren N., Aydogdu M. O. , Gokce H., Fıcaı A., Salman S., Oktar F. N. , Gunduz O.
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- XLVI. **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., Fıcaı A., Oktar F. N.
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- XLVII. **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., TÜRKÖĞLÜ 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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- L.I. **Structural, compositional, mechanical characterization and biological assessment of bovine-derived hydroxyapatite coatings reinforced with MgF₂ or MgO for implants functionalization**
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- L.II. **Tissue Engineering Scaffolds from La₂O₃ - Hydroxyapatite\Boron Glass Composites**
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- L.III. **Nanotechnology in dentistry**
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- L.IV. **Crystallization of leucite in potassium-alumino-silicate glasses**
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- L.V. **Nano-Bioceramic Synthesis from Tropical Sea Snail Shells (Tiger Cowrie - Cypraea Tigris) with Simple Chemical Treatment**
Sahin Y. M. , Gunduz O., Bulut B., Ozyegin L. S. , Gokce H., Agaogullari D., Chou J., Kayali E. S. , Ben-Nissan B., Oktar F. N.
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- L.VI. **Conversion of Ostrich Eggshells (Struthio camelus) to Calcium Phosphates**
Macha I. J. , Ozyegin L. S. , OKTAR F. N. , Ben-Nissan B.
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- L.VII. **Molecular Mechanism and Targets of the Antimicrobial Activity of Metal Nanoparticles**
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- L.VIII. **Comparative study of Coral Conversion, Part 2: Microstructural evolution of calcium phosphate**
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- L.X. **A New Method for Fabrication of Nanohydroxyapatite and TCP from the Sea Snail Cerithium vulgatum**
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- L.XI. **Nanostructured biomaterials with antimicrobial properties**
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- L.XII. **Production and Mechanical Properties of Commercial Synthetic Hydroxyapatite CSHA Composites**
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- L.XIII. **ZnO Applications and Challenges**
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- L.XIV. **Biological hydroxyapatite thin films synthesized by pulsed laser deposition**
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- LXV. **CALCIUM PHOSPHATE FORMATION FROM SEA URCHIN - (BRISSUS LATECARINATUS) VIA MODIFIED MECHANO-CHEMICAL (ULTRASONIC) CONVERSION METHOD**
Samur R., Ozyegin L., Agaogullari D., Oktar F. N., Agathopoulos S., Kalkandelen C., Duman I., Ben-Nissan B.
METALURGIJA, vol.52, no.3, pp.375-378, 2013 (Journal Indexed in SCI)
- LXVI. **Characterization of calcium phosphate powders originating from Phyllacanthus imperialis and Trochidae Infundibulum concavus marine shells**
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