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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik, Turkey 1990 - 1994

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 1987 - 1989

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1983 - 1987

Research Areas

Biomedical Engineering, Clinical Engineering, Clinical Engineering, Metallurgical and Materials Engineering, Material science and engineering, Biomaterials, Nanomaterials, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Magnetic gelatin nanoparticles as a biocompatible carrier system for small interfering RNA in human colorectal cancer: Synthesis, optimization, characterization, and cell viability studies**
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- II. **Development of novel poly-l-lysine-modified sericin-coated superparamagnetic iron oxide nanoparticles as siRNA carrier**
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- III. **Prevention of urinary infection through the incorporation of silver-ricinoleic acid-polystyrene nanoparticles on the catheter surface**
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- IV. **The preparation of chitosan membrane improved with nanoparticles based on unsaturated fatty acid for using in cancer-related infections**
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- V. **Potent bioactive bone cements impregnated with polystyrene-g-soybean oil-AgNPs for advanced**

bone tissue applications

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- VIII. **Transscleral Delivery of Bevacizumab-Loaded Chitosan Nanoparticles**
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- IX. **Experimental Exploration of Thermostable Poly (-Hydroxybutyrates) by Geobacillus kaustophilus Using Box-Behnken Design**
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- XI. **Development of Titania Nanotube-based Electrochemical Immunosensor and Determination of Prostate Specific Antigen**
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- XIV. **Electrochemical immunoassay for detection of prostate specific antigen based on peptide nanotube-gold nanoparticle-polyaniline immobilized pencil graphite electrode**
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- XVI. **Enhanced antitumor activity of epigallocatechin gallate-conjugated dual-drug-loaded polystyrene-polysoyaoil-diethanol amine nanoparticles for breast cancer therapy**
KARAHALILOĞLU Z., KILIÇAY E., Alpaslan P., HAZER B., DENKBAŞ E. B.
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- XVIII. **Magnetic silk fibroin e-gel scaffolds for bone tissue engineering applications**
Karahaliloglu Z., YALCIN E., DEMİRBILEK M., DENKBAŞ E. B.
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- XX. **Active nano/microbilayer hemostatic agents for diabetic rat bleeding model**
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- XXI. **The effect of thymoquinone coating on adhesive properties of polypropylene mesh**
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- XXX. **Electrospun nanofiber reinforcement of dental composites with electromagnetic alignment approach**
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- XXXI. **Concanavaline A conjugated bacterial polyester-based PHBHHx nanoparticles loaded with curcumin for breast cancer therapy**
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- XXXII. **Design of Xylose-Based Semisynthetic Polyurethane Tissue Adhesives with Enhanced Bioactivity Properties**
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- XXXV. **Evaluation of biocompatibility of random or aligned electrospun polyhydroxybutyrate scaffolds combined with human mesenchymal stem cells**
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Non Academic Experience

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