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Eğitim Bilgileri

Post Doktora, University of California, Los Angeles, College of Letters and Science, Chemistry, Amerika Birleşik Devletleri
2017 - 2019

Doktora, University of California, Los Angeles, School of Engineering, Biomedical Engineering, Amerika Birleşik Devletleri
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Yüksek Lisans, University of California, Los Angeles, School of Engineering, Biomedical Engineering, Amerika Birleşik
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Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Ulusal Nanoteknoloji Uygulama Ve Araştırma Merkezi, Malzeme
Bilimi ve Nanoteknoloji, Türkiye 2007 - 2009

Lisans, Başkent Üniversitesi, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, Türkiye 2003 - 2007

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Biyomedikal Mühendisliği, Biyoenstrümantasyon ve MEMS, MEMS, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Erciyes Üniversitesi, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2020 - Devam Ediyor

Araştırmacı, University of California, Los Angeles, College of Letters and Science, Chemistry, 2017 - 2019

Araştırma Görevlisi, University of California, Los Angeles, School of Engineering, Biomedical Engineering, 2011 - 2017

Araştırma Görevlisi, İhsan Doğramacı Bilkent Üniversitesi, Ulusal Nanoteknoloji Uygulama Ve Araştırma Merkezi,
Malzeme Bilimi ve Nanoteknoloji, 2007 - 2009

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Gastroenteropancreatic neuroendocrine neoplasms: current development, challenges, and clinical perspectives**
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- II. **Multifunctional silver nanoparticle embedded eri silk cocoon scaffolds against burn wounds-associated infection**
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- IV. **Pharmacological Activities and Molecular Mechanisms of Sinapic Acid in Neurological Disorders**
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- V. **Natural product/diet-based regulation of macrophage polarization: Implications in treatment of inflammatory-related diseases and cancer**
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- VI. **Simple and Rapid Monolayer Self-Assembly of Nanoparticles at the Air/Water Interface**
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- VII. **Chitosan- and hyaluronic acid-based nanoarchitectures in phototherapy: Combination cancer chemotherapy, immunotherapy and gene therapy**
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- VIII. **Peptide-functionalized, -assembled and -loaded nanoparticles in cancer therapy**
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- IX. **Diagnostic, Therapeutic, and Theranostic Multifunctional Microneedles**
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- X. **Dysregulation of autophagy in gastric carcinoma: Pathways to tumor progression and resistance to therapy**
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- XI. **Autophagy flux in bladder cancer: Cell death crosstalk, drug and nanotherapeutics**
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- XII. **Nanomaterials in crossroad of autophagy control in human cancers: Amplification of cell death mechanisms**
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- XIII. **Metal-Organic Frameworks for Cisplatin Delivery to Cancer Cells: A Molecular Dynamics Simulation**
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- XIV. **Highly-sensitive detection of 2,4-dinitrotoluene using colloidal gold nanospheres**
Erturan A. M., Lulek E., Cuhadar S. N., ERTAŞ Y. N., Durmaz H.

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- XV. **Implantable, 3D-Printed Alginate Scaffolds with Bismuth Sulfide Nanoparticles for the Treatment of Local Breast Cancer via Enhanced Radiotherapy**
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- XVI. **Smart co-delivery of plasmid DNA and doxorubicin using MCM-chitosan-PEG polymerization functionalized with MUC-1 aptamer against breast cancer**
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- XVII. **Harnessing function of EMT in cancer drug resistance: a metastasis regulator determines chemotherapy response**
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- XVIII. **Nanostructures for site-specific delivery of oxaliplatin cancer therapy: Versatile nanoplatforms in synergistic cancer therapy**
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- XIX. **Electrochemical sensing of doxorubicin hydrochloride under sodium alginate antifouling conditions using silver nanoparticles modified glassy carbon electrodes**
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- XX. **Facile preparation of silver based radiosensitizers via biomineralization method for enhanced in vivo breast cancer radiotherapy**
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- XXI. **Zeolite-Copper Ferrite Nanocomposites with Improved Antibacterial Activity and Reusability for Biomedical Applications**
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- XXII. **(Nano)platforms in breast cancer therapy: Drug/gene delivery, advanced nanocarriers and immunotherapy**
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- XXIII. **CuFe₂O₄ decorated with BSA as a potential nanoradioenhancer for enhanced X-ray radiation therapy of brain tumor**
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- XXV. **3D-Printed, Implantable Alginate/CuS Nanoparticle Scaffolds for Local Tumor Treatment via Synergistic Photothermal, Photodynamic, and Chemodynamic Therapy**
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- XXVI. **ROS induction within 4T1 breast cancer cells by CuS NPs as chemodynamic agent**

- Amereh M., Salmani F., Ameghani S., Ghaderzadeh R., Nosrati H., Danafar H., ERTAŞ Y. N.
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- XXVII. **Co-delivery of curcumin and chrysin through pH-sensitive hyaluronan-modified hollow mesoporous silica nanoparticles for enhanced synergistic anticancer efficiency against thyroid cancer cells**
Li Y., ERTAŞ Y. N., Jafari A., Taheri M., Pilehvar Y.
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- XXVIII. **Engineered Polyethylene Glycol-Coated Zinc Ferrite Nanoparticles as a Novel Magnetic Resonance Imaging Contrast Agent**
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- XXIX. **Chitosan-based nanoscale delivery systems in hepatocellular carcinoma: Versatile bio-platform with theranostic application**
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- XXX. **Synthesis, Characterization and Potent Antibacterial Activity of Metal-Substituted Spinel Ferrite Nanoparticles**
Dabagh S., Haris S. A., ERTAŞ Y. N.
JOURNAL OF CLUSTER SCIENCE, cilt.34, sa.4, ss.2067-2078, 2023 (SCI-Expanded)
- XXXI. **Eco-friendly chitosan-based nanostructures in diabetes mellitus therapy: Promising bioplatfroms with versatile therapeutic perspectives**
Taheriazam A., Entezari M., Firouz Z. M., Hajimazdarany S., Hossein Heydargoy M., Amin Moghadassi A. H., moghadaci A., sadrani A., Motahhary M., Harif Nashtifani A., et al.
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- XXXII. **Doxorubicin-loaded micelles in tumor cell-specific chemotherapy**
Almajidi Y. Q., Kadhim M. M., Alsaikhan F., Turki Jalil A., Hassan Sayyid N., Alexis Ramirez-Coronel A., Hassan Jawhar Z., Gupta J., Nabavi N., Yu W., et al.
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- XXXIII. **Cancer stem cell-mediated drug resistance: A comprehensive gene expression profile analysis in breast cancer**
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- XXXIV. **Gold nanostructure-mediated delivery of anticancer agents: Biomedical applications, reversing drug resistance, and stimuli-responsive nanocarriers**
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- XXXV. **Alginate coated superparamagnetic iron oxide nanoparticles as nanocomposite adsorbents for arsenic removal from aqueous solutions**
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- XXXVI. **Unraveling the function of epithelial-mesenchymal transition (EMT) in colorectal cancer: Metastasis, therapy response, and revisiting molecular pathways**
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- XXXVII. **Preparation of alginate coated Pt nanoparticle for radiosensitization of breast cancer tumor**
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- XXXVIII. **Fabrication, characterisation and antimicrobial activity of electrospun Plantago psyllium L. seed gum/gelatine nanofibres incorporated with Cuminum cyminum essential oil nanoemulsion**

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- XXXIX. **Chemoradiation therapy of 4T1 cancer cells with methotrexate conjugated platinum nanoparticles under X-Ray irradiation**
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- XL. **Biomimetic cell membrane-coated poly(lactic-co-glycolic acid) nanoparticles for biomedical applications**
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- XLII. **Graphene oxide nanoarchitectures in cancer biology: Nano-modulators of autophagy and apoptosis**
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- XLIII. **Nanoliposomes for doxorubicin delivery: Reversing drug resistance, stimuli-responsive carriers and clinical translation**
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- XLIV. **Targeted CuFe₂O₄ hybrid nanoradiosensitizers for synchronous chemoradiotherapy**
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- XLV. **(Nano)platforms in bladder cancer therapy: Challenges and opportunities**
Ashrafzadeh M., ZARRABI A., Karimi-Maleh H., Taheriazam A., Mirzaei S., Hashemi M., Hushmandi K., Makvandi P., Nazarzadeh Zare E., Sharifi E., et al.
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- XLVI. **Blood filtering system for COVID-19 management: novel modality of the cytokine storm therapeutics**
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- XLVII. **Drug Delivery by Artificial Cells**
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- XLVIII. **Long non-coding RNA/epithelial-mesenchymal transition axis in human cancers: Tumorigenesis, chemoresistance, and radioresistance**
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- XLIX. **Trends in advanced materials for the fabrication of insulin electrochemical immunosensors**
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- L. **An ultrasensitive and preprocessing-free electrochemical platform for the detection of doxorubicin based on tryptophan/polyethylene glycol-cobalt ferrite nanoparticles modified electrodes**
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- L. **Silk-based nano-biocomposite scaffolds for skin organogenesis**
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- LI. **Magnetite and bismuth sulfide Janus heterostructures as radiosensitizers for in vivo enhanced radiotherapy in breast cancer**
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- LII. **Recent Advances in Cochlear Implant Electrode Array Design Parameters**
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- LIII. **Targeting AMPK signaling in ischemic/reperfusion injury: From molecular mechanism to pharmacological interventions**
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- LIV. **Noncoding RNAs and their therapeutics in paclitaxel chemotherapy: Mechanisms of initiation, progression, and drug sensitivity**
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- LV. **Implantable magnetic nanofibers with ON-OFF switchable release of curcumin for possible local hyperthermic chemotherapy of melanoma**
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- LVI. **Advances in tannic acid-incorporated biomaterials: Infection treatment, regenerative medicine, cancer therapy, and biosensing**
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- LVII. **AMPK signaling in diabetes mellitus, insulin resistance and diabetic complications: A pre-clinical and clinical investigation**
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- LVIII. **EZH2 as a new therapeutic target in brain tumors: Molecular landscape, therapeutic targeting and future prospects**
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- LIX. **Therapeutic Approaches to Amyotrophic Lateral Sclerosis from the Lab to the Clinic**
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- LX. **Methods for fabricating oxygen releasing biomaterials**
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- LXI. **Gene regulation by antisense transcription: A focus on neurological and cancer diseases**
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- LXII. **Revealing the role of miRNA-489 as a new onco-suppressor factor in different cancers based on pre-clinical and clinical evidence**
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- LXIII. **Advanced Computational Methodologies Used in the Discovery of New Natural Anticancer Compounds**
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- LXIV. **Nanoparticles for Targeted Drug Delivery to Cancer Stem Cells: A Review of Recent Advances**
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- LXV. **Advances in biomedical applications of self-healing hydrogels**
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- LXVI. **Nanotechnology against the novel coronavirus (severe acute respiratory syndrome coronavirus 2): diagnosis, treatment, therapy and future perspectives**
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- LXVII. **3D Bioprinting of Oxygenated Cell-Laden Gelatin Methacryloyl Constructs**
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- LXVIII. **More Than 12% Polarization and 20 Minute Lifetime of N-15 in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water**
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