

Assoc. Prof. YAVUZ NURİ ERTAŞ

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 32995

Email: yavuzertas@erciyes.edu.tr

Web: <https://www.ertaslab.com>

Address: Erciyes Üniversitesi, Mühendislik Fakültesi, Biyomedikal Mühendisliği, E-314

International Researcher IDs

ScholarID: aX5-qOcAAAAJ

ORCID: 0000-0002-6791-7484

Publons / Web Of Science ResearcherID: ABH-8904-2020

ScopusID: 56399290300

Yoksis Researcher ID: 328495

Education Information

Post Doctorate, University of California, Los Angeles, College of Letters and Science, Chemistry, United States Of America
2017 - 2019

Doctorate, University of California, Los Angeles, School of Engineering, Biomedical Engineering, United States Of America
2011 - 2017

Postgraduate, University of California, Los Angeles, School of Engineering, Biomedical Engineering, United States Of
America 2009 - 2011

Postgraduate, Ihsan Dogramaci Bilkent University, National Nanotechnology Research Center, Materials Science and
Nanotechnology, Turkey 2007 - 2009

Undergraduate, Baskent University, Faculty Of Engineering, Department Of Biomedical Engineering, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

Research Areas

Biomedical Engineering, Bioengineering and MEMS, MEMS, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues

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

Research Assistant, University of California, Los Angeles, School of Engineering, Biomedical Engineering, 2011 - 2017

Research Assistant, Ihsan Dogramaci Bilkent University, National Nanotechnology Research Center, Materials Science
and Nanotechnology, 2007 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Gastroenteropancreatic neuroendocrine neoplasms: current development, challenges, and clinical perspectives**
Zhang X., Fan Y., Jing R., Getu M. A., Chen W., Zhang W., Dong H., Dakal T. C., Hayat A., Cai H., et al.
Military Medical Research, vol.11, no.1, 2024 (SCI-Expanded)
- II. **Natural product/diet-based regulation of macrophage polarization: Implications in treatment of inflammatory-related diseases and cancer**
Ashrafizadeh M., Aref A. R., Sethi G., ERTAŞ Y. N., Wang L.
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- III. **Chitosan- and hyaluronic acid-based nanoarchitectures in phototherapy: Combination cancer chemotherapy, immunotherapy and gene therapy**
Wang Z., Pang S., Liu X., Dong Z., Tian Y., Ashrafizadeh M., Rabiee N., ERTAŞ Y. N., Mao Y.
International Journal of Biological Macromolecules, vol.273, 2024 (SCI-Expanded)
- IV. **Peptide-functionalized, -assembled and -loaded nanoparticles in cancer therapy**
Dai J., Ashrafizadeh M., Aref A. R., Sethi G., ERTAŞ Y. N.
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- V. **Nanomaterials in crossroad of autophagy control in human cancers: Amplification of cell death mechanisms**
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- VI. **Autophagy flux in bladder cancer: Cell death crosstalk, drug and nanotherapeutics**
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- VII. **Dysregulation of autophagy in gastric carcinoma: Pathways to tumor progression and resistance to therapy**
Wen W., ERTAŞ Y. N., Erdem A., Zhang Y.
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- VIII. **Metal-Organic Frameworks for Cisplatin Delivery to Cancer Cells: A Molecular Dynamics Simulation**
Mashayekh E., Ghiasi Z. N. K., Bhia I., Khorrami Z. A., Malekahmadi O., Bhia M., Malekmohammadi S., ERTAŞ Y. N.
ACS OMEGA, vol.9, no.17, pp.19627-19636, 2024 (SCI-Expanded)
- IX. **Highly-sensitive detection of 2,4-dinitrotoluene using colloidal gold nanospheres**
Erturan A. M., Lulek E., Cuhadar S. N., ERTAŞ Y. N., Durmaz H.
Sensors and Actuators A: Physical, vol.369, 2024 (SCI-Expanded)
- X. **Implantable, 3D-Printed Alginate Scaffolds with Bismuth Sulfide Nanoparticles for the Treatment of Local Breast Cancer via Enhanced Radiotherapy**
Colak B., ERTAŞ Y. N.
ACS APPLIED MATERIALS & INTERFACES, vol.16, no.13, pp.15718-15729, 2024 (SCI-Expanded)
- XI. **Smart co-delivery of plasmid DNA and doxorubicin using MCM-chitosan-PEG polymerization functionalized with MUC-1 aptamer against breast cancer**
Esmaeili Y., Dabiri A., Mashayekhi F., Rahimmanesh I., Bidram E., Karbasi S., Rafienia M., Javanmard S. H., ERTAŞ Y. N., Zarrabi A., et al.
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- XII. **Harnessing function of EMT in cancer drug resistance: a metastasis regulator determines chemotherapy response**
Ebrahimi N., Manavi M. S., Faghikhhorasani F., Fakhr S. S., Baei F. J., Khorasani F. F., Zare M. M., Far N. P., Rezaei-Tazangi F., Ren J., et al.
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- XIII. **Nanostructures for site-specific delivery of oxaliplatin cancer therapy: Versatile nanoplatforms in synergistic cancer therapy**
Bagheri M., Zandieh M. A., Daryab M., Samaei S. S., Gholami S., Rahmanian P., Dezfulian S., Eary M., Rezaee A., Rajabi R., et al.

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- XIV. **Diagnostic, Therapeutic, and Theranostic Multifunctional Microneedles**
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- XV. **Facile preparation of silver based radiosensitizers via biomineralization method for enhanced in vivo breast cancer radiotherapy**
Ghaffarlou M., Mohammadi A., Mousazadeh N., Salehiabar M., Kalantari Y., Charmi J., BARSBAY M., ERTAŞ Y. N., Danafar H., Rezaeejam H., et al.
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- XVI. **Electrochemical sensing of doxorubicin hydrochloride under sodium alginate antifouling conditions using silver nanoparticles modified glassy carbon electrodes**
Lulek E., Soleymani J., Molaparast M., ERTAŞ Y. N.
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- XVII. **Zeolite-Copper Ferrite Nanocomposites with Improved Antibacterial Activity and Reusability for Biomedical Applications**
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- XVIII. **CuFe₂O₄ decorated with BSA as a potential nanoradioenhancer for enhanced X-ray radiation therapy of brain tumor**
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- XIX. **CuFe₂O₄ decorated with BSA as a potential nanoradioenhancer for enhanced X-ray radiation therapy of brain tumor**
YARAY K., Rashidzadeh H., Mozafari F., Rezaeejam H., Moghaddam Z. K., ERTAŞ Y. N., Danafar H.
Chemical Papers, vol.77, no.11, pp.7187-7196, 2023 (SCI-Expanded)
- XX. **(Nano)platforms in breast cancer therapy: Drug/gene delivery, advanced nanocarriers and immunotherapy**
Ashrafizadeh M., Zarrabi A., Bigham A., Taheriazam A., Saghari Y., Mirzaei S., Hashemi M., Hushmandi K., Karimi-Maleh H., Nazarzadeh Zare E., et al.
Medicinal Research Reviews, vol.43, no.6, pp.2115-2176, 2023 (SCI-Expanded)
- XXI. **3D-Printed, Implantable Alginate/CuS Nanoparticle Scaffolds for Local Tumor Treatment via Synergistic Photothermal, Photodynamic, and Chemodynamic Therapy**
Colak B., CİHAN M. C., ERTAŞ Y. N.
ACS Applied Nano Materials, vol.6, no.17, pp.16076-16085, 2023 (SCI-Expanded)
- XXII. **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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- XXIII. **ROS induction within 4T1 breast cancer cells by CuS NPs as chemodynamic agent**
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- XXIV. **Engineered Polyethylene Glycol-Coated Zinc Ferrite Nanoparticles as a Novel Magnetic Resonance Imaging Contrast Agent**
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ACS Biomaterials Science and Engineering, vol.9, no.7, pp.4138-4148, 2023 (SCI-Expanded)
- XXV. **Eco-friendly chitosan-based nanostructures in diabetes mellitus therapy: Promising bioplatforms with versatile therapeutic perspectives**
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- XXVI. **Synthesis, Characterization and Potent Antibacterial Activity of Metal-Substituted Spinel Ferrite**

Nanoparticles

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- XXVII. **Chitosan-based nanoscale delivery systems in hepatocellular carcinoma: Versatile bio-platform with theranostic application**
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- XXVIII. **Doxorubicin-loaded micelles in tumor cell-specific chemotherapy**
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- XXIX. **Cancer stem cell-mediated drug resistance: A comprehensive gene expression profile analysis in breast cancer**
Torabian P., Yousefi H., Fallah A., Moradi Z., Naderi T., Delavar M. R., ERTAŞ Y. N., Zarrabi A., Aref A. R.
Pathology Research and Practice, vol.246, 2023 (SCI-Expanded)
- XXX. **Gold nanostructure-mediated delivery of anticancer agents: Biomedical applications, reversing drug resistance, and stimuli-responsive nanocarriers**
Entezari M., Yousef Abad G. G., Sedghi B., Ettehad R., Asadi S., Beiranvand R., Haratian N., Karimian S. S., Jebali A., Khorrami R., et al.
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- XXXI. **Fabrication, characterisation and antimicrobial activity of electrospun Plantago psyllium L. seed gum/gelatine nanofibres incorporated with Cuminum cyminum essential oil nanoemulsion**
Mohajeri P., Hematian Sourki A., Mehregan Nikoo A., ERTAŞ Y. N.
International Journal of Food Science and Technology, vol.58, no.4, pp.1832-1840, 2023 (SCI-Expanded)
- XXXII. **Unraveling the function of epithelial-mesenchymal transition (EMT) in colorectal cancer: Metastasis, therapy response, and revisiting molecular pathways**
Sabouni E., Nejad M. M., Mojtabavi S., Khoshduz S., Mojtabavi M., Nadafzadeh N., Nikpanjeh N., Mirzaei S., Hashemi M., Aref A. R., et al.
Biomedicine and Pharmacotherapy, vol.160, 2023 (SCI-Expanded)
- XXXIII. **Alginate coated superparamagnetic iron oxide nanoparticles as nanocomposite adsorbents for arsenic removal from aqueous solutions**
Asadi Haris S., Dabagh S., Mollasalehi H., ERTAŞ Y. N.
Separation and Purification Technology, vol.310, 2023 (SCI-Expanded)
- XXXIV. **Preparation of alginate coated Pt nanoparticle for radiosensitization of breast cancer tumor**
Rashidzadeh H., Seidi F., Ghaffarlou M., Salehiabar M., Charmi J., YARAY K., Nosrati H., ERTAŞ Y. N.
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- XXXV. **Chemoradiation therapy of 4T1 cancer cells with methotrexate conjugated platinum nanoparticles under X-Ray irradiation**
YARAY K., Norbakhsh A., Rashidzadeh H., Mohammadi A., Mozafari F., Ghaffarlou M., Mousazadeh N., Ghaderzadeh R., Ghorbani Y., Nasehi L., et al.
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- XXXVI. **Biomimetic cell membrane-coated poly(lactic-co-glycolic acid) nanoparticles for biomedical applications**
Jan N., Madni A., Khan S., Shah H., Akram F., Khan A., Ertas D., Bostanudin M. F., Contag C. H., Ashammakhi N., et al.
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- XXXVII. **Graphene oxide nanoarchitectures in cancer biology: Nano-modulators of autophagy and apoptosis**
Taheriazam A., Abad G. G. Y., Hajimazdarany S., Imani M. H., Ziaolhagh S., Zandieh M. A., Bayanzadeh S. D., Mirzaei S., Hamblin M. R., Entezari M., et al.
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- XXXVIII. **Nanoliposomes for doxorubicin delivery: Reversing drug resistance, stimuli-responsive carriers and**

clinical translation

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XL. Blood filtering system for COVID-19 management: novel modality of the cytokine storm therapeutics

Chavda V. P., Raval N., Sheta S., Vora L. K., Elrashdy F., Redwan E. M., Uversky V. N., ERTAŞ Y. N.

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XLI. Targeted CuFe₂O₄ hybrid nanoradiosensitizers for synchronous chemoradiotherapy

Salehiabar M., Ghaffarlou M., Mohammadi A., Mousazadeh N., Rahimi H., Abhari F., Rashidzadeh H., Nasehi L., Rezaeejam H., BARSBAY M., et al.

Journal of Controlled Release, vol.353, pp.850-863, 2023 (SCI-Expanded)

XLII. (Nano)platforms in bladder cancer therapy: Challenges and opportunities

Ashrafizadeh M., ZARRABI A., Karimi-Maleh H., Taheriazam A., Mirzaei S., Hashemi M., Hushmandi K., Makvandi P., Nazarzadeh Zare E., Sharifi E., et al.

BIOENGINEERING & TRANSLATIONAL MEDICINE, vol.8, no.1, 2023 (SCI-Expanded)

XLIII. 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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XLIV. Trends in advanced materials for the fabrication of insulin electrochemical immunosensors

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XLV. Long non-coding RNA/epithelial-mesenchymal transition axis in human cancers: Tumorigenesis, chemoresistance, and radioresistance

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XLVI. Silk-based nano-biocomposite scaffolds for skin organogenesis

Dam P., Altuntas S., Mondal R., Baudrit J. R. V., Kati A., Ghorai S., Sadat A., Gangopadhyay D., Shaw S., Franco O. L., et al.

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XLVII. Magnetite and bismuth sulfide Janus heterostructures as radiosensitizers for in vivo enhanced radiotherapy in breast cancer

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BIOMATERIALS ADVANCES, vol.140, 2022 (SCI-Expanded)

XLVIII. Recent Advances in Cochlear Implant Electrode Array Design Parameters

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Micromachines, vol.13, no.7, 2022 (SCI-Expanded)

XLIX. Targeting AMPK signaling in ischemic/reperfusion injury: From molecular mechanism to pharmacological interventions

Paskeh M. D. A., Asadi A., Mirzaei S., Hashemi M., Entezari M., Raesi R., Hushmandi K., ZARRABI A., ERTAŞ Y. N., Aref A. R., et al.

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L. Noncoding RNAs and their therapeutics in paclitaxel chemotherapy: Mechanisms of initiation, progression, and drug sensitivity

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- LI. **Implantable magnetic nanofibers with ON-OFF switchable release of curcumin for possible local hyperthermic chemotherapy of melanoma**
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- LII. **Advances in tannic acid-incorporated biomaterials: Infection treatment, regenerative medicine, cancer therapy, and biosensing**
Bigham A., Rahimkhoei V., Abasian P., Delfi M., Naderi J., Ghomi M., Moghaddam F. D., Waqar T., ERTAŞ Y. N., Sharifi S., et al.
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- LIII. **EZH2 as a new therapeutic target in brain tumors: Molecular landscape, therapeutic targeting and future prospects**
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- LIV. **AMPK signaling in diabetes mellitus, insulin resistance and diabetic complications: A pre-clinical and clinical investigation**
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- LV. **Gene regulation by antisense transcription: A focus on neurological and cancer diseases**
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- LVI. **Methods for fabricating oxygen releasing biomaterials**
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- LVII. **Therapeutic Approaches to Amyotrophic Lateral Sclerosis from the Lab to the Clinic**
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- LVIII. **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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- LIX. **Advanced Computational Methodologies Used in the Discovery of New Natural Anticancer Compounds**
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- LX. **Nanoparticles for Targeted Drug Delivery to Cancer Stem Cells: A Review of Recent Advances**
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- LXI. **Advances in biomedical applications of self-healing hydrogels**
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- LXII. **Nanotechnology against the novel coronavirus (severe acute respiratory syndrome coronavirus 2): diagnosis, treatment, therapy and future perspectives**
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- LXIII. **3D Bioprinting of Oxygenated Cell-Laden Gelatin Methacryloyl Constructs**
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- LXIV. **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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- LXV. **Thermal behavior of the molten pool, microstructural evolution, and tribological performance during selective laser melting of TiC/316L stainless steel nanocomposites: Experimental and simulation methods**
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- LXVI. **Effects of Cd vacancies and unconventional spin dynamics in the Dirac semimetal Cd₃As₂**
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- LXVII. **Aqueous Ligand-Stabilized Palladium Nanoparticle Catalysts for Parahydrogen-Induced C-13 Hyperpolarization**
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- LXVIII. **Controlled nanocrystallinity in Gd nanobowls leads to magnetization of 226 emu/g**
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- LXIX. **Surface ligand-directed pair-wise hydrogenation for heterogeneous phase hyperpolarization**
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- LXX. **Supercapacitor behaviors of polyaniline/CuO, polypyrrole/CuO and PEDOT/CuO nanocomposites**
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- LXXI. **Oxide-Free Gadolinium Nanocrystals with Large Magnetic Moments**
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- LXXII. **High-Throughput and Label-Free Single Nanoparticle Sizing Based on Time-Resolved On-Chip Microscopy**
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