

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-qOAAAAJ

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. **Innovative theranostic hydrogels for targeted gastrointestinal cancer treatment**
Tang M., Song J., Zhang S., Shu X., Liu S., Ashrafizadeh M., ERTAŞ Y. N., Zhou Y., Lei M.
Journal of Translational Medicine, vol.22, no.1, 2024 (SCI-Expanded)
- II. **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)
- III. **Label-free Biosensing Using Hybrid Plasmonic Substrates Generated via Nanosphere Lithography**
Lulek E., Cetin A. E., ERTAŞ Y. N.
ACS APPLIED NANO MATERIALS, vol.7, pp.22793-22801, 2024 (SCI-Expanded)
- IV. **Chitosan-*graft*-Pomegranate Extract Hydrogel: A Dual-Functional Pad for Antibacterial and Antioxidant Enhancement for Shelf Life Extension in Food Packaging**
Far B. F., Jahanbakhshi M., Jameie L., Zolfigol F., Taromi P., ERTAŞ Y. N.
ACS APPLIED POLYMER MATERIALS, vol.6, no.16, pp.9545-9558, 2024 (SCI-Expanded)
- V. **Multifunctional silver nanoparticle embedded eri silk cocoon scaffolds against burn wounds-associated infection**
Dam P., Shaw S., Mondal R., Chakraborty J., Bhattacharjee T., Sen I. K., Manna S., Sadat A., Suin S., Sarkar H., et al.
RSC ADVANCES, vol.14, no.37, pp.26723-26737, 2024 (SCI-Expanded)
- VI. **Pharmacological Activities and Molecular Mechanisms of Sinapic Acid in Neurological Disorders**
Farzan M., Abedi B., Bhia I., Madanipour A., Farzan M., Bhia M., Aghaei A., Kheirollahi I., Motallebi M., Amini-Khoei H., et al.
ACS CHEMICAL NEUROSCIENCE, vol.15, no.16, pp.2966-2981, 2024 (SCI-Expanded)
- VII. **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.
Journal of Nutritional Biochemistry, vol.130, 2024 (SCI-Expanded)
- VIII. **Peptide-functionalized, -assembled and -loaded nanoparticles in cancer therapy**
Dai J., Ashrafizadeh M., Aref A. R., Sethi G., ERTAŞ Y. N.
Drug Discovery Today, vol.29, no.7, 2024 (SCI-Expanded)
- IX. **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)
- X. **Simple and Rapid Monolayer Self-Assembly of Nanoparticles at the Air/Water Interface**
Lulek E., ERTAŞ Y. N.
LANGMUIR, no.34, pp.18039-18048, 2024 (SCI-Expanded)
- XI. **Diagnostic, Therapeutic, and Theranostic Multifunctional Microneedles**
ERTAŞ Y. N., Ertas D., ERDEM A., Segujja F., Dulchavsky S., Ashammakhi N.
Small, vol.20, no.26, 2024 (SCI-Expanded)
- XII. **Dysregulation of autophagy in gastric carcinoma: Pathways to tumor progression and resistance to therapy**
Wen W., ERTAŞ Y. N., Erdem A., Zhang Y.
Cancer Letters, vol.591, 2024 (SCI-Expanded)
- XIII. **Autophagy flux in bladder cancer: Cell death crosstalk, drug and nanotherapeutics**
Liu K., Chen H., Li Y., Wang B., Li Q., Zhang L., Liu X., Wang C., ERTAŞ Y. N., Shi H.
Cancer Letters, vol.591, 2024 (SCI-Expanded)
- XIV. **Nanomaterials in crossroad of autophagy control in human cancers: Amplification of cell death mechanisms**
Zhao G., Wang Y., Fan Z., Xiong J., ERTAŞ Y. N., Ashammakhi N., Wang J., Ma T.
Cancer Letters, vol.591, 2024 (SCI-Expanded)

- XV. **Metal-Organic Frameworks for Cisplatin Delivery to Cancer Cells: A Molecular Dynamics Simulation**
Mashayekh E., Ghiasi Z. N. K., Bhia I., Khorrani Z. A., Malekhamadi O., Bhia M., Malekmohammadi S., ERTAŞ Y. N.
ACS OMEGA, vol.9, no.17, pp.19627-19636, 2024 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **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.
Biomedicine and Pharmacotherapy, vol.173, 2024 (SCI-Expanded)
- XIX. **Harnessing function of EMT in cancer drug resistance: a metastasis regulator determines chemotherapy response**
Ebrahimi N., Manavi M. S., Faghikhorasani F., Fakhr S. S., Baei F. J., Khorasani F. F., Zare M. M., Far N. P., Rezaei-Tazangi F., Ren J., et al.
Cancer and Metastasis Reviews, vol.43, no.1, pp.457-479, 2024 (SCI-Expanded)
- XX. **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.
Translational Oncology, vol.39, 2024 (SCI-Expanded)
- XXI. **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.
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- XXII. **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.
Talanta, vol.265, 2023 (SCI-Expanded)
- XXIII. **Zeolite-Copper Ferrite Nanocomposites with Improved Antibacterial Activity and Reusability for Biomedical Applications**
Dabagh S., Haris S. A., Isfahani B. K., Ashammakhi N., ERTAŞ Y. N.
ACS Applied Nano Materials, vol.6, no.22, pp.21412-21423, 2023 (SCI-Expanded)
- XXIV. **(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)
- XXV. **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)
- XXVI. **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, no.11, pp.7187-7196, 2023 (SCI-Expanded)

- XXVII. **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)
- XXVIII. **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.
Journal of Drug Delivery Science and Technology, vol.86, 2023 (SCI-Expanded)
- XXIX. **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.
Journal of Drug Delivery Science and Technology, vol.87, 2023 (SCI-Expanded)
- XXX. **Engineered Polyethylene Glycol-Coated Zinc Ferrite Nanoparticles as a Novel Magnetic Resonance Imaging Contrast Agent**
Dabagh S., Haris S. A., ERTAŞ Y. N.
ACS Biomaterials Science and Engineering, vol.9, no.7, pp.4138-4148, 2023 (SCI-Expanded)
- XXXI. **Synthesis, Characterization and Potent Antibacterial Activity of Metal-Substituted Spinel Ferrite Nanoparticles**
Dabagh S., Haris S. A., ERTAŞ Y. N.
JOURNAL OF CLUSTER SCIENCE, vol.34, no.4, pp.2067-2078, 2023 (SCI-Expanded)
- XXXII. **Chitosan-based nanoscale delivery systems in hepatocellular carcinoma: Versatile bio-platform with theranostic application**
Karimi K., Mojtabavi S., Tehrani P. M., Nejad M. M., Rezaee A., Mohtashamian S., Hamed E., Yousefi F., Salmani F., Zandieh M. A., et al.
International Journal of Biological Macromolecules, vol.242, 2023 (SCI-Expanded)
- XXXIII. **Eco-friendly chitosan-based nanostructures in diabetes mellitus therapy: Promising bioplateforms 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.
Environmental Research, vol.228, 2023 (SCI-Expanded)
- XXXIV. **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.
Environmental Research, vol.227, 2023 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **Gold nanostructure-mediated delivery of anticancer agents: Biomedical applications, reversing drug resistance, and stimuli-responsive nanocarriers**
Entezari M., Yousef Abad G. G., Sedghi B., Ettehadi R., Asadi S., Beiranvand R., Haratian N., Karimian S. S., Jebali A., Khorrami R., et al.
Environmental Research, vol.225, 2023 (SCI-Expanded)
- XXXVII. **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.
Inorganic Chemistry Communications, vol.150, 2023 (SCI-Expanded)
- XXXVIII. **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)

- XXXIX. **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.
International Journal of Biological Macromolecules, vol.233, 2023 (SCI-Expanded)
- XL. **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)
- XLI. **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)
- XLII. **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.
BIOENGINEERING & TRANSLATIONAL MEDICINE, vol.8, no.2, 2023 (SCI-Expanded)
- XLIII. **Nanoliposomes for doxorubicin delivery: Reversing drug resistance, stimuli-responsive carriers and clinical translation**
Hashemi M., Ghadyani F., Hasani S., Olyae Y., Raei B., Khodadadi M., Ziyarani M. F., Basti F. A., Tavakolpournegari A., Matinahmadi A., et al.
Journal of Drug Delivery Science and Technology, vol.80, 2023 (SCI-Expanded)
- XLIV. **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.
Journal of Controlled Release, vol.354, pp.503-522, 2023 (SCI-Expanded)
- XLV. **(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)
- XLVI. **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)
- XLVII. **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.
Frontiers in Immunology, vol.14, 2023 (SCI-Expanded)
- XLVIII. **Drug Delivery by Artificial Cells**
Diltemiz S. E., ERTAŞ Y. N., Contag C. H., Ashammakhi N.
Journal of Craniofacial Surgery, vol.34, no.1, pp.9-10, 2023 (SCI-Expanded)
- XLIX. **Long non-coding RNA/epithelial-mesenchymal transition axis in human cancers: Tumorigenesis, chemoresistance, and radioresistance**
Hashemi M., Hajimazdarany S., Mohan C. D., Mohammadi M., Rezaei S., Olyae Y., Goldoost Y., Ghorbani A., Mirmazloomi S. R., Gholinia N., et al.
Pharmacological Research, vol.186, 2022 (SCI-Expanded)
- L. **Trends in advanced materials for the fabrication of insulin electrochemical immunosensors**
Zare Y., Soleymani J., Rahimi M., ERTAŞ Y. N., Jafarzadeh S.
CHEMICAL PAPERS, vol.76, no.12, pp.7263-7274, 2022 (SCI-Expanded)
- LI. **An ultrasensitive and preprocessing-free electrochemical platform for the detection of doxorubicin based on tryptophan/polyethylene glycol-cobalt ferrite nanoparticles modified electrodes**
Abbasi M., Ezazi M., Jouyban A., Lulek E., Asadpour-Zeynali K., ERTAŞ Y. N., Houshyar J., Mokhtarzadeh A., Soleymani J.

Microchemical Journal, vol.183, 2022 (SCI-Expanded)

LII. 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.

MATERIALS LETTERS, vol.327, 2022 (SCI-Expanded)

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

Nosrati H., Ghaffarlou M., Salehiabar M., Mousazadeh N., Abhari F., BARSBAY M., ERTAŞ Y. N., Rashidzadeh H., Mohammadi A., Nasehi L., et al.

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

LIV. Recent Advances in Cochlear Implant Electrode Array Design Parameters

ERTAŞ Y. N., Ozpolat D., Karasu S. N., Ashammakhi N.

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

LV. 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.

CELLULAR SIGNALLING, vol.94, 2022 (SCI-Expanded)

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

Mahabady M. K., Mirzaei S., Saebfar H., Gholami M. H., Zabolian A., Hushmandi K., Hashemi F., Tajik F., Hashemi M., Kumar A. P., et al.

JOURNAL OF CELLULAR PHYSIOLOGY, vol.237, no.5, pp.2309-2344, 2022 (SCI-Expanded)

LVII. Implantable magnetic nanofibers with ON-OFF switchable release of curcumin for possible local hyperthermic chemotherapy of melanoma

Wei W., Zarghami N., Abasi M., ERTAŞ Y. N., Pilehvar Y.

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.110, no.4, pp.851-860, 2022 (SCI-Expanded)

LVIII. 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.

CHEMICAL ENGINEERING JOURNAL, vol.432, 2022 (SCI-Expanded)

LIX. EZH2 as a new therapeutic target in brain tumors: Molecular landscape, therapeutic targeting and future prospects

Paskeh M. D. A., Mehrabi A., Gholami M. H., Zabolian A., Ranjbar E., Saleki H., Ranjbar A., Hashemi M., ERTAŞ Y. N., Hushmandi K., et al.

BIOMEDICINE & PHARMACOTHERAPY, vol.146, 2022 (SCI-Expanded)

LX. AMPK signaling in diabetes mellitus, insulin resistance and diabetic complications: A pre-clinical and clinical investigation

Entezari M., Hashemi D., Taheriazam A., Zabolian A., Mohammadi S., Fakhri F., Hashemi M., Hushmandi K., Ashrafizadeh M., ZARRABI A., et al.

BIOMEDICINE & PHARMACOTHERAPY, vol.146, 2022 (SCI-Expanded)

LXI. Gene regulation by antisense transcription: A focus on neurological and cancer diseases

Najafi S., Tan S. C., Raee P., Rahmati Y., Asemani Y., Lee E. H. C., Hushmandi K., Zarrabi A., Aref A. R., Ashrafizadeh M., et al.

BIOMEDICINE & PHARMACOTHERAPY, vol.145, 2022 (SCI-Expanded)

LXII. Therapeutic Approaches to Amyotrophic Lateral Sclerosis from the Lab to the Clinic

Chavda V. P., Patel C., Modh D., ERTAŞ Y. N., Sonak S. S., Munshi N. K., Anand K., Soni A., Pande S.

CURRENT DRUG METABOLISM, vol.23, no.3, pp.200-222, 2022 (SCI-Expanded)

LXIII. Methods for fabricating oxygen releasing biomaterials

ERDEM A., Haghniaz R., ERTAŞ Y. N., Sangabathuni S. K., Nasr A. S., Swieszkowski W., Ashammakhi N.

JOURNAL OF DRUG TARGETING, vol.30, no.2, pp.188-199, 2022 (SCI-Expanded)

- LXIV. **Revealing the role of miRNA-489 as a new onco-suppressor factor in different cancers based on pre-clinical and clinical evidence**
Paskeh M. D. A., Mirzaei S., Orouei S., Zabolian A., Saleki H., Azami N., Hushmandi K., Baradaran B., Hashmi M., Aref A. R., et al.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.191, pp.727-737, 2021 (SCI-Expanded)
- LXV. **Advanced Computational Methodologies Used in the Discovery of New Natural Anticancer Compounds**
Chavda V. P. P., ERTAŞ Y. N., Walhekar V., Modh D., Doshi A., Shah N., Anand K., Chhabria M.
FRONTIERS IN PHARMACOLOGY, vol.12, 2021 (SCI-Expanded)
- LXVI. **Nanoparticles for Targeted Drug Delivery to Cancer Stem Cells: A Review of Recent Advances**
ERTAŞ Y. N., Dorcheh K. A., Akbari A., Jabbari E.
NANOMATERIALS, vol.11, no.7, 2021 (SCI-Expanded)
- LXVII. **Advances in biomedical applications of self-healing hydrogels**
Rammal H., GhavamiNejad A., ERDEM A., Mbeleck R., Nematollahi M., Emir Diltemiz S., Alem H., Darabi M. A., ERTAŞ Y. N., Catterson E. J., et al.
MATERIALS CHEMISTRY FRONTIERS, vol.5, pp.4368-4400, 2021 (SCI-Expanded)
- LXVIII. **Nanotechnology against the novel coronavirus (severe acute respiratory syndrome coronavirus 2): diagnosis, treatment, therapy and future perspectives**
Rashidzadeh H., Danafar H., Rahimi H., Mozafari F., Salehiabar M., Rahmati M. A., Rahamooz-Haghighi S., Mousazadeh N., Mohammadi A., ERTAŞ Y. N., et al.
NANOMEDICINE, vol.16, no.6, pp.497-516, 2021 (SCI-Expanded)
- LXIX. **3D Bioprinting of Oxygenated Cell-Laden Gelatin Methacryloyl Constructs**
Erdem A., Darabi M., Nasiri R., Sangabathuni S., Ertas Y. N., Alem H., Hosseini V., Shamloo A., Nasr A., Ahadian S., et al.
ADVANCED HEALTHCARE MATERIALS, vol.9, no.15, 2020 (SCI-Expanded)
- LXX. **More Than 12% Polarization and 20 Minute Lifetime of N-15 in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water**
McCormick J., Korchak S., Mamone S., Ertas Y. N., Liu Z., Verlinsky L., Wagner S., Gloeggler S., Bouchard L.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.57, no.33, pp.10692-10696, 2018 (SCI-Expanded)
- LXXI. **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**
AlMangour B., Grzesiak D., Cheng J., Ertas Y. N.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.257, pp.288-301, 2018 (SCI-Expanded)
- LXXII. **Effects of Cd vacancies and unconventional spin dynamics in the Dirac semimetal Cd3As2**
Koumoulis D., Taylor R. E., McCormick J., Ertas Y. N., Pan L., Che X., Wang K. L., Bouchard L.
JOURNAL OF CHEMICAL PHYSICS, vol.147, no.8, 2017 (SCI-Expanded)
- LXXIII. **Aqueous Ligand-Stabilized Palladium Nanoparticle Catalysts for Parahydrogen-Induced C-13 Hyperpolarization**
McCormick J., Grunfeld A. M., Ertas Y. N., Biswas A. N., Marsh K. L., Wagner S., Gloeggler S., Bouchard L.
ANALYTICAL CHEMISTRY, vol.89, no.13, pp.7190-7194, 2017 (SCI-Expanded)
- LXXIV. **Controlled nanocrystallinity in Gd nanobowls leads to magnetization of 226 emu/g**
Ertas Y. N., Bouchard L. -
JOURNAL OF APPLIED PHYSICS, vol.121, no.9, 2017 (SCI-Expanded)
- LXXV. **Surface ligand-directed pair-wise hydrogenation for heterogeneous phase hyperpolarization**
Gloeggler S., Grunfeld A. M., Ertas Y. N., McCormick J., Wagner S., Bouchard L. -
CHEMICAL COMMUNICATIONS, vol.52, no.3, pp.605-608, 2016 (SCI-Expanded)
- LXXVI. **Supercapacitor behaviors of polyaniline/CuO, polypyrrole/CuO and PEDOT/CuO nanocomposites**
Ates M., Serin M. A., Ekmen I., Ertas Y. N.
POLYMER BULLETIN, vol.72, no.10, pp.2573-2589, 2015 (SCI-Expanded)

- LXXVII. **Oxide-Free Gadolinium Nanocrystals with Large Magnetic Moments**
Ertas Y. N., Jarenwattananon N. N., Bouchard L.
CHEMISTRY OF MATERIALS, vol.27, no.15, pp.5371-5376, 2015 (SCI-Expanded)
- LXXVIII. **High-Throughput and Label-Free Single Nanoparticle Sizing Based on Time-Resolved On-Chip Microscopy**
McLeod E., Dincer T. U., Veli M., Ertas Y. N., Chau Nguyen C. N., Luo W., Greenbaum A., Feizi A., Ozcan A.
ACS NANO, vol.9, no.3, pp.3265-3273, 2015 (SCI-Expanded)
- LXXIX. **A Nanoparticle Catalyst for Heterogeneous Phase Para-Hydrogen-Induced Polarization in Water**
Gloeggler S., Grunfeld A. M., Ertas Y. N., McCormick J., Wagner S., Schleker P. P. M., Bouchard L.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.54, no.8, pp.2452-2456, 2015 (SCI-Expanded)
- LXXX. **Effects of multivariate linker substitution, metal binding, and reactor conditions on the catalytic activity of a Pd-functionalized MOF for olefin hydrogenation**
Otto T., Jarenwattananon N. N., Gloeggler S., Brown J. W., Melkonian A., Ertas Y. N., Bouchard L.
APPLIED CATALYSIS A-GENERAL, vol.488, pp.248-255, 2014 (SCI-Expanded)
- LXXXI. **Microfluidics for reconfigurable electromagnetic metamaterials**
Kasirga T. S., Ertas Y. N., Bayindir M.
APPLIED PHYSICS LETTERS, vol.95, no.21, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Development of Aptamer-Functionalized Gold Nanoparticles as Probes in Point-of-Care Diagnostic Device for Rapid Detection of Multidrug-Resistant Bacteria in *Bombyx mori* L.**
Mondal R., Chakraborty J., Dam P., Shaw S., Gangopadhyay D., Ertas Y. N., Mandal A. K.
ACS APPLIED BIO MATERIALS, vol.7, no.8, pp.5740-5753, 2024 (ESCI)
- II. **Nanoliposomes as nonviral vectors in cancer gene therapy**
Yildiz S. N., Entezari M., Paskeh M. D. A., Mirzaei S., Kalbasi A., Zabolian A., Hashemi F., Hushmandi K., Hashemi M., Raei M., et al.
MEDCOMM, vol.5, no.7, 2024 (ESCI)
- III. **T Cell and Natural Killer Cell Membrane-Camouflaged Nanoparticles for Cancer and Viral Therapies**
Ozsoy F., Mohammed M., Jan N., Lulek E., ERTAŞ Y. N.
ACS Applied Bio Materials, vol.7, no.5, pp.2637-2659, 2024 (ESCI)
- IV. **Light-responsive liposome as a smart vehicle for the delivery of anticancer herbal medicine to skin**
Zarepour A., Ülker Z., Khosravi A., COSKUN A., ERTAŞ Y. N., Yildiz M., Zarrabi A.
Emergent Materials, 2024 (ESCI)
- V. **Silver-Decorated and Silica-Capped Magnetite Nanoparticles with Effective Antibacterial Activity and Reusability**
Dabagh S., Haris S. A., Isfahani B. K., ERTAŞ Y. N.
ACS Applied Bio Materials, vol.6, no.6, pp.2266-2276, 2023 (ESCI)
- VI. **Enhanced In Vivo Radiotherapy of Breast Cancer Using Gadolinium Oxide and Gold Hybrid Nanoparticles**
Nosrati H., Salehiabar M., Charmi J., YARAY K., Ghaffarlou M., BALCIOĞLU E., ERTAŞ Y. N.
ACS Applied Bio Materials, vol.6, no.2, pp.784-792, 2023 (ESCI)
- VII. **Role of biomaterials in the diagnosis, prevention, treatment, and study of corona virus disease 2019 (COVID-19)**
ERTAŞ Y. N., Mahmoodi M., Shahabipour F., Jahed V., Diltemiz S. E., TUTAR R., Ashammakhi N.
EMERGENT MATERIALS, vol.4, no.1, pp.35-55, 2021 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Field-Portable Nanoparticle and Virus Sizing Enabled by On-Chip Microscopy and Vapor-Condensed Nanolenses

McLeod E., Dincer T. U., Veli M., Ertas Y. N., Nguyen C., Luo W., Greenbaum A., Feizi A., Ozcan A.
Conference on Lasers and Electro-Optics (CLEO), San-Jose, Costa Rica, 10 - 15 May 2015

Supported Projects

- ERTAŞ Y. N., KÜÇÜKOFLAZ KORKMAZ M., Project Supported by Higher Education Institutions, Meme kanseri tedavisine yönelik implante edilebilir nanofiberler ile kemoterapi ve fototermal kombine terapi yaklaşımı, 2023 - Continues
- ERTAŞ Y. N., ÖZDARENDELİ A., AYDIN Ö., KARATAŞ Ö. F., TUBITAK Project, Anti-Ace2 Antikor Ile Dekore Edilmiş Ve Mir-1275 Yüklenmiş Niyozom Yapıları Ile Sars-Cov-2 Viral Genomunun Hedeflenmesi, 2022 - 2025
- ERTAŞ Y. N., Project Supported by Higher Education Institutions, Nanoküre Litografi Kullanılarak Hibrit Plazmonik Yüzeylerin Üretimi ve Yüksek Hassasiyetli Etiketsiz Biyoalgılamada Kullanılması, 2024 - 2024
- ERTAŞ Y. N., REHMAN A., Project Supported by Higher Education Institutions, Design and Synthesis of Coumarin Based Fluorescent Molecules for Photodynamic therapy of cancerous cells, 2023 - 2024
- ERTAŞ Y. N., KÜÇÜKOFLAZ KORKMAZ M., Project Supported by Higher Education Institutions, İlaç Yüklü Nanofiberler ile Lokal Kemoterapi ve Fototermal Terapi Aracılığıyla Meme Kanserinin Tedavisi, 2023 - 2024
- AYDIN Ö., HAMURCU Z., ULUTABANCA H., ERTAŞ Y. N., DENİZ K., DANIŞMAN K., YÜKSEL DURMAZ Y., TAHERİ S., ÖZPOLAT B., ÖZDEMİR A. T., Project Supported by Higher Education Institutions, Lipozom siRNA ve TMZ İekli Tedavisinin Geliştirilmesi ve İn Vivo Fare Glioblastoma Modelinde Odaklanmış Ultrason (FUS) Aracılı İletimi ve Etkilerinin Araştırılması, 2020 - 2024
- ERTAŞ Y. N., KARASU S. N., DEMİRTAŞ T. T., Project Supported by Higher Education Institutions, Doku Mühendisliği Uygulamaları İçin Yeni Bir Hidrojel Sistemin Üretimi Chia Tohumu Müsilajının Mikrodalga Destekli Metakrilasyonu, 2022 - 2023
- ERTAŞ Y. N., ÇOLAK B., Project Supported by Higher Education Institutions, Bizmut Sülfür Nanoparçacık Yüklü Hidrojelin 3 Boyutlu Baskısı ve Meme Kanseri Tedavisinde Radyoterapi Etkinliğinin Araştırılması, 2022 - 2023
- ERTAŞ Y. N., LÜLEK E., Project Supported by Higher Education Institutions, Yüksek Manyetik Özellikli Demir Nanoparçacıklarının Nanoküre Litografisi Kullanılarak Üretilmesi, 2022 - 2023
- ERTAŞ Y. N., Project Supported by Higher Education Institutions, Bazı kanser biyobelirteçlerinin elektrokimyasal yöntemlerle aptamer tabanlı biyosensörlerle tespiti, 2021 - 2023
- ÖNSES M. S., ERTAŞ Y. N., YILMAZ E., PEKDEMİR S., TÖRÜN İ., ŞAKİR M., AYDIN Ö., ÖZDEMİR A. T., YILDIZ F., Project Supported by Higher Education Institutions, Sensör Uygulamaları için Nanoyapılı Plazmonik Yüzeylerin Üretilmesi ve Karakterizasyonu, 2020 - 2023
- ERTAŞ Y. N., ÖZTÜRK F., Project Supported by Higher Education Institutions, Yapay Zeka ve Derin Öğrenme Teknikleri ile Patolojik Preperatlardan Meme Kanseri Teşhisi ve Skorlaması, 2020 - 2022

Scientific Refereeing

- PLASMONICS, SCI Journal, March 2020
- PLASMONICS, SCI Journal, January 2018
- PLASMONICS, SCI Journal, September 2015
- PLASMONICS, SCI Journal, January 2015
- PLASMONICS, SCI Journal, October 2013
- PLASMONICS, SCI Journal, February 2013
- PLASMONICS, SCI Journal, August 2011
- Plasmonics, SCI Journal, May 2011
- PLASMONICS, SCI Journal, March 2011
- PLASMONICS, SCI Journal, March 2011

Metrics

Publication: 89

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