

## Assoc. Prof. YAVUZ NURİ ERTAŞ

### Personal Information

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### International Researcher IDs

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### 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, 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.  
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- 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.  
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- 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.  
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- XV. **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)
- 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.  
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- 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.  
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- XIX. **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.  
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.  
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- 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.  
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- XXV. **CuFe<sub>2</sub>O<sub>4</sub> 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.  
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- 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.  
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- 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.  
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- 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., Mojtavavi 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 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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- 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.  
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- 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.  
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- 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.  
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- 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 CuFe<sub>2</sub>O<sub>4</sub> 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.  
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- 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.  
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- L. **Trends in advanced materials for the fabrication of insulin electrochemical immunosensors**  
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- 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.

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- 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**  
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- LIV. **Recent Advances in Cochlear Implant Electrode Array Design Parameters**  
ERTAŞ Y. N., Ozpolat D., Karasu S. N., Ashammakhi N.  
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- 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.  
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- 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.  
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- LVII. **Implantable magnetic nanofibers with ON-OFF switchable release of curcumin for possible local hyperthermic chemotherapy of melanoma**  
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- 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.  
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- 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.  
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- LX. **AMPK signaling in diabetes mellitus, insulin resistance and diabetic complications: A pre-clinical and clinical investigation**  
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- 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.  
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- LXII. **Therapeutic Approaches to Amyotrophic Lateral Sclerosis from the Lab to the Clinic**  
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- LXIII. **Methods for fabricating oxygen releasing biomaterials**  
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- LXIV. **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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- LXV. **Advanced Computational Methodologies Used in the Discovery of New Natural Anticancer Compounds**  
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- LXVI. **Nanoparticles for Targeted Drug Delivery to Cancer Stem Cells: A Review of Recent Advances**  
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- LXVII. **Advances in biomedical applications of self-healing hydrogels**  
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- 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.  
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- LXIX. **3D Bioprinting of Oxygenated Cell-Laden Gelatin Methacryloyl Constructs**  
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- LXX. **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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