

# Res. Asst. YAŞAR KEMAL ERDOĞAN

## Personal Information

Email: [yasarer@metu.edu.tr](mailto:yasarer@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/yasarer>

## International Researcher IDs

ScholarID: CiLp408AAAAJ

ORCID: 0000-0002-5662-5398

Publons / Web Of Science ResearcherID: ABA-3733-2020

ScopusID: 004781

Yoksis Researcher ID: 227113

## Research Areas

Biomedical Engineering, Biomaterials, Nanomaterials

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Morphology of Nanostructured Tantalum Oxide Controls Stem Cell Differentiation and Improves Corrosion Behavior**  
Erdogan Y. K., Uslu E., Aydinol M. K., Saglam A. S. Y., Odabas S., Ercan B.  
ACS BIOMATERIALS SCIENCE & ENGINEERING, vol.10, no.1, pp.377-390, 2024 (SCI-Expanded)
- II. **3D Printing of Extracellular Matrix-Based Multicomponent, All-Natural, Highly Elastic, and Functional Materials toward Vascular Tissue Engineering**  
Isik M., Karakaya E., Arslan T. S., Atila D., Erdogan Y. K., Arslan Y. E., Eskizengin H., Ercan B., Nemutlu E., Eylem C. C., et al.  
Advanced Healthcare Materials, vol.12, no.20, 2023 (SCI-Expanded)
- III. **Anodized Nanostructured 316L Stainless Steel Enhances Osteoblast Functions and Exhibits Anti-Fouling Properties**  
ERDOĞAN Y. K., ERCAN B.  
ACS BIOMATERIALS SCIENCE & ENGINEERING, vol.9, no.2, pp.693-704, 2023 (SCI-Expanded)
- IV. **Decellularized Bone Extracellular Matrix-Coated Electrospun PBAT Microfibrous Membranes with Cell Instructive Ability and Improved Bone Tissue Forming Capacity**  
Karakaya E., Erdogan Y. K., Arslan T. S., Arslan Y. E., Odabaş S., Ercan B., Emregül E., Derkuş B.  
MACROMOLECULAR BIOSCIENCE, vol.22, no.12, 2022 (SCI-Expanded)
- V. **THE SURFACE MODIFICATION OF 316L STAINLESS STEEL AND IN VITRO TESTS FOR CARDIOVASCULAR STENT APPLICATION**  
ERDOĞAN Y. K., ERCAN B.  
TISSUE ENGINEERING PART A, vol.28, 2022 (SCI-Expanded)
- VI. **Nanostructured modifications of titanium surfaces improve vascular regenerative properties of exosomes derived from mesenchymal stem cells: Preliminary in vitro results**  
Gardin C., Ferroni L., Erdogan Y. K., Zanotti F., De Francesco F., Trentini M., Brunello G., Ercan B., Zavan B.  
Nanomaterials, vol.11, no.12, 2021 (SCI-Expanded)
- VII. **Comprehensive Evaluation of the Biological Properties of Surface-Modified Titanium Alloy Implants**  
Piszczek P., Radtke A., Ehlert M., Jedrzejewski T., Sznarkowska A., Sadowska B., Bartmanski M., ERDOĞAN Y. K.,

- ERCAN B., Jedrzejczyk W.  
JOURNAL OF CLINICAL MEDICINE, vol.9, no.2, 2020 (SCI-Expanded)
- VIII. **Photo-acoustic sensor based on an inexpensive piezoelectric film transducer and an amplitude-stabilized single-mode external cavity diode laser for in vitro measurements of glucose concentration**  
Bayraklı I., Erdogan Y. K.  
OPTICS AND LASER TECHNOLOGY, vol.102, pp.180-183, 2018 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Anodization of 316L stainless steel for implant applications**  
Erdoğan Y. K., Ercan B.  
20. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 10 June 2021
- II. **Non-invasive Glucose detection using biomedical photo-acoustic sensor**  
ERDOĞAN Y. K., BAYRAKLI İ.  
3rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- III. **Breath analysis using photo-acoustic sensors**  
BAYRAKLI İ., ERDOĞAN Y. K.  
3rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- IV. **Smart Devices Based Remote Patient Monitoring System**  
BİNGÖL O., ERDOĞAN Y. K.  
3th International Conference on Advanced Technology Sciences (ICAT'16), 1 - 03 September 2016

## Activities in Scientific Journals

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Assistant Editor/Section Editor, 2020 - Continues

## Metrics

Publication: 14  
Citation (WoS): 60  
Citation (Scopus): 63  
H-Index (WoS): 4  
H-Index (Scopus): 4