

Asst. Prof. BENAY UZER YILMAZ

Personal Information

Office Phone: [+90 352 224 8800](tel:+903522248800) Extension: 7231

Email: benay.uzer@agu.edu.tr

Web: <https://avesis.agu.edu.tr/benay.uzer>

Address: benay.uzer@agu.edu.tr

International Researcher IDs

ORCID: 0000-0001-8778-1660

Yoksis Researcher ID: 273290

Education Information

Doctorate, Koc University, Faculty Of Engineering, Makine Mühendisliği, Turkey 2013 - 2017

Undergraduate, Koc University, Faculty Of Engineering, Makine Mühendisliği, Turkey 2008 - 2013

Foreign Languages

English, C1 Advanced

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Biomaterials, Material Characterization, Metallic Materials, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - Continues

Researcher, Texas A&M University, Engineering, Material Science And Engineering, 2016 - 2017

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Abdullah Gul University, Mühendislik Fakültesi, Makine Mühendisliği, 2018 - Continues

Deputy Head of Department, Abdullah Gul University, Mühendislik Fakültesi, Makine Mühendisliği, 2018 - Continues

Courses

Metallic Biomaterials, Undergraduate, 2020 - 2021

Metallic Biomaterials, Postgraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Modulating the Surface Properties of Metallic Implants and the Response of Breast Cancer Cells by Surface Relief Induced via Bulk Plastic Deformation**
UZER YILMAZ B.
FRONTIERS IN MATERIALS, vol.7, 2020 (SCI-Expanded)
- II. **Nanotwin Formation in High-Manganese Austenitic Steels Under Explosive Shock Loading**
Canadinc D., UZER B., Elmadagli M., Guner F.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.4, pp.1026-1030, 2018 (SCI-Expanded)
- III. **On the mechanical response and microstructure evolution of NiCoCr single crystalline medium entropy alloys**
UZER B., Picak S., Liu J., Jozaghi T., Canadinc D., Karaman I., Chumlyakov Y. I., Kireeva I.
MATERIALS RESEARCH LETTERS, vol.6, no.8, pp.442-449, 2018 (SCI-Expanded)
- IV. **An exploration of plastic deformation dependence of cell viability and adhesion in metallic implant materials**
Uzer B., Toker S. M., Cingoz A., Bagci-Onder T., Gerstein G., Maier H. J., Canadinc D.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.60, pp.177-186, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of the Dissolution-Reformation Cycle of the Passive Oxide Layer on NiTi Orthodontic Archwires**
Uzer B., Birer O., Canadinc D.
SHAPE MEMORY AND SUPERELASTICITY, vol.3, no.3, pp.264-273, 2017 (ESCI)
- II. **A Critical Approach to the Biocompatibility Testing of Niti Orthodontic Archwires**
UZER B., CANADINÇ D., TOKER S. M., POLAT ALTINTAŞ S.
International Journal of Metallurgy and Metal Physics, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **The relationship of surface roughness and wettability of 316L stainless steel implants with plastic deformation mechanisms**
Cicek S., Karaca A., TÖRÜN İ., ÖNSES M. S., Uzer B.
1st International Conference on Materials, Mimicking, Manufacturing from and for Bio Application, BioM and M 2018, Milan, Italy, 27 - 29 June 2018, vol.7, pp.389-393
- II. **The role of twinning in the deformation of single crystalline high- and medium entropy alloys**
Picak S., UZER B.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018, pp.1
- III. **The Influence of Plastic Deformation Mechanisms on the Adhesion Behavior and Collagen Formation in Osteoblast Cells**
UZER B., CANADINÇ D., varanasi v., monte f.
TMS 2018, 11 - 13 March 2018
- IV. **THE EFFECT OF PLASTIC DEFORMATION ON THE CELL VIABILITY AND ADHESION BEHAVIOR IN METALLIC IMPLANT MATERIALS**
UZER B.
MST 2016, 26 - 28 October 2016
- V. **Surface characteristic dependent ex situ and in vitro biocompatibility analysis of NiTi alloys**
TOKER S. M., UZER B., CANADINÇ D.

BIOMED 2017, 12 - 14 May 2017

Scientific Refereeing

ACS BIOMATERIALS-SCIENCE & ENGINEERING, Journal Indexed in SCI-E, December 2019

Metrics

Publication: 11

Citation (WoS): 41

Citation (Scopus): 43

H-Index (WoS): 3

H-Index (Scopus): 3