

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

Education Information

Doctorate, Koç Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2013 - 2017

Under Graduate, Koç Üniversitesi, Mühendislik Fakültesi, 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 Gül Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - Continues

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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 (Journal Indexed in SCI)
- **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, pp.1026-1030, 2018 (Journal Indexed in SCI)
- **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, pp.442-449, 2018 (Journal Indexed in SCI)
- **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.

Articles Published in Other Journals

- **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, pp.264-273, 2017 (Journal Indexed in ESCI)
- **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 (Refereed Journals of Other Institutions)

Books & Book Chapters

- **The Influence of Plastic Deformation Mechanisms on the Adhesion Behavior and Collagen Formation in Osteoblast Cells**
UZER B.
in: TMS Annual Meeting & Exhibition, The Minerals, Metals & Materials Society, Editor, Springer, Pittsburgh, pp.295-301, 2018
- **THE EFFECT OF PLASTIC DEFORMATION ON THE CELL VIABILITY AND ADHESION BEHAVIOR IN METALLIC IMPLANT MATERIALS**
UZER B.
in: Processing, Properties, and Design of Advanced Ceramics and Composites II, Narottam P., Bansal , Editor, Wiley, New Jersey, pp.187-196, 2017

Refereed Congress / Symposium Publications in Proceedings

- **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
- **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
- **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

Citations

Total Citations (WOS):41

h-index (WOS):3