

Res. Asst. PhD ÖMER BURAK İSTANBULLU

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , Turkey 2016 - 2022

Postgraduate, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , Turkey 2014 - 2016

Postgraduate, Istanbul Technical University, Elektronik Ve Haberleşme Mühendisliği, Biyomedikal Mühendisliği, Turkey 2013 - 2014

Undergraduate, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , Turkey 2009 - 2013

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, Deney Hayvanları Kullanımı Sertifikası - A Kategorisi, Erciyes Üniversitesi Hayvan Deneyleri Yerel Etik Kurulu, 2019

Education Management and Planning, Mimics Innovations Suite, Btech - Certified Training Center of Materialise, 2017

Dissertations

Doctorate, Biyomalzeme Yüzey Modifikasyonunun Stent Kaynaklı Damar Yolu Tıkanıklığına Etkisi, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , 2022

Postgraduate, Medikal İmplantlarda Kullanılan Biyomalzemelerin Manyetik Rezonans Cihazı Uyumluluğunun ve Güvenilirliğinin Analizi, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , 2016

Research Areas

Biomedical Engineering, Artificial Organs and Biomaterials, Testing and Control of Materials, Mechanical Properties,

Electrical and Magnetic Properties, Chemical and Electrochemical Properties, Corrosion and Corrosion Protection, Plating, Material Characterization, Metallic Materials, Nanomaterials, Structure-Property Relationship, Surface Finishing Processes

Academic Titles / Tasks

Research Assistant, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , 2014 - Continues
Research Assistant, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2013 - 2014

Academic and Administrative Experience

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Computer-Aided Analysis of the Corrosion Inhibition by Carbon-Based Thin-Film Coating on Vascular Bare Metal Stent Models**
Akdoğan G., İstanbullu Ö. B.
ADVANCED THEORY AND SIMULATIONS, pp.1-12, 2022 (Peer-Reviewed Journal)
- II. **Influences of Stent Design on In-Stent Restenosis and Major Cardiac Outcomes: A Scoping Review and Meta-Analysis**
İstanbullu Ö. B. , Akdoğan G.
Cardiovascular Engineering and Technology, vol.13, no.1, pp.147-169, 2021 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **A Simulation Study of Galvanic Corrosion Potential on the Surface of Implantable Biometallic Couples**
İstanbullu Ö. B. , Akdoğan G.
Journal of Bio- and Tribo-Corrosion, vol.7, no.25, pp.1-9, 2021 (Peer-Reviewed Journal)
- II. **Effects of Material Selection and Design on Restenosis and Other Stent Based Problems in Intravascular Stents, The Situation of Stents in the Economy (A Review)**
Akdoğan G., İstanbullu Ö. B.
Avrupa Bilim ve Teknoloji Dergisi, no.18, pp.204-215, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Early Degradation Problem of Biodegradable Stents ISBN: 978-605-67206-3-5**
AKDOĞAN G., İSTANBULLU Ö. B.
2nd International Congress on Advances in Bioscience and Biotechnology (ICABB), 26 - 30 June 2018, no.550, pp.29-30
- II. **Recent Developments in Vascular Stent Technologies**
İSTANBULLU Ö. B. , AKDOĞAN G.
EUROPEAN CONFERENCE ON SCIENCE, ART & CULTURE, Antalya, Turkey, 19 - 22 April 2018, pp.105
- III. **Computer simulation of the electromagnetic interaction between an implanted conductive medical wire and 1.5 T MRI device**
İSTANBULLU Ö. B. , AKDOĞAN G.
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256
- IV. **Effects of metallic implants on magnetic resonance images**

İSTANBULLU Ö. B. , AKDOĞAN G.

3rd World Congress on Materials Science & Engineering, Barcelona, Spain, 24 - 26 August 2017, pp.35

V. **Assessment of Safety Issues in MRI Monitoring of Patients with Metallic Implant**

AKDOĞAN G., İSTANBULLU Ö. B.

IWBIO 2017 International Work-Conference on Bioinformatics and Biomedical Engineering, Granada, Spain, 26 - 28 April 2017, pp.212-216

VI. **MRG Uyumluluk ve Güvenilirlik Risklerinin Biyomalzemeler için Değerlendirilmesi**

İSTANBULLU Ö. B. , AKDOĞAN G.

TIPTEKNO'15 - Tıp Teknolojileri Ulusal Kongresi, Muğla, Turkey, 15 - 18 October 2015, pp.491-494

Supported Projects

AKDOĞAN G., İSTANBULLU Ö. B. , Project Supported by Higher Education Institutions, Medikal İmplantlarda Kullanılan Malzemelerin Manyetik Rezonans Cihazı Uyumluluğunun ve Güvenilirliğinin Analizi, 2015 - 2017

Metrics

Publication: 10

Congress and Symposium Activities

European Conference on Science, Art&Culture, Attendee, Antalya, Turkey, 2018

3rd World Congress on Materials Science & Engineering, Attendee, Barcelona, Spain, 2017

European Biotechnology Congress 2017, Attendee, Dubrovnik, Croatia, 2017

Tıptekno'15 Ulusal Kongresi, Attendee, Muğla, Turkey, 2015