

## Asst. Prof. GÜLŞEN AKDOĞAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-2267-2021

ScopusID: 57225349162

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 1991 - 1999

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 1985 - 1989

Undergraduate, Gazi University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Ana Bilim Dalı, Turkey 1979 - 1983

### Foreign Languages

English, C1 Advanced

French, A1 Beginner

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

- I. **Increased body fluid repellency and electrochemical corrosion resistance of intravascular stent materials by ICP-CVD-based DLC thin-film deposition**  
İSTANBULLU Ö. B., AKDOĞAN G.  
Diamond and Related Materials, vol.138, 2023 (SCI-Expanded)
- II. **Analysing the effects of metallic biomaterial design and imaging sequences on MRI interpretation challenges due to image artefacts**  
Akdogan G., İstanbullu Ö. B.  
Physical and Engineering Sciences in Medicine, vol.45, no.4, pp.1-12, 2022 (SCI-Expanded)
- III. **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, vol.5, no.8, 2022 (SCI-Expanded)
- IV. **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, 2022 (SCI-Expanded)

- V. **Can intracoronally bleached teeth be bonded safely?**  
UYSAL T., Er O., SAĞSEN B., Üstdal A., AKDOĞAN G.  
AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, vol.136, no.5, pp.689-694, 2009 (SCI-Expanded)
- VI. **Bond Strength of Amorphous Calcium Phosphate-Containing Orthodontic Composite Used as a Lingual Retainer Adhesive**  
Uysal T., Ülker M., AKDOĞAN G., Ramoglu S. I., Yılmaz E.  
ANGLE ORTHODONTIST, vol.79, no.1, pp.117-121, 2009 (SCI-Expanded)
- VII. **Resistance to fracture of roots filled with three different techniques**  
Sagsen B., Er O., Kahraman Y., Akdogan G.  
INTERNATIONAL ENDODONTIC JOURNAL, vol.40, no.1, pp.31-35, 2007 (SCI-Expanded)
- VIII. **Kırık ve Kemik Defektlerinin Perkütan Kemik iliği ile Greftlenmesi: Tavşanlarla Deneysel Çalışma**  
ŞAHİN V., Karakaş E. S., Kandemir O., AKDOĞAN G.  
Erciyes Tıp Dergisi, vol.20, no.1, pp.55-64, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Blood-repellent and anti-corrosive surface by spin-coated SWCNT layer on intravascular stent materials**  
İSTANBULLU Ö. B., AKDOĞAN G.  
Physical and Engineering Sciences in Medicine, vol.46, no.1, pp.227-243, 2023 (Scopus)
- II. **RF-induced heating effects of metallic biomaterial designs at 1.5T MRI exposure**  
AKDOĞAN G., İSTANBULLU Ö. B.  
International Journal of Biomedical Engineering and Technology, vol.41, no.4, pp.376-393, 2023 (ESCI)
- III. **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.1, 2021 (Scopus)
- IV. **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)
- V. **Biotribology of Cartilage Wear in Knee and Hip Joints Review of Recent Developments**  
Akdoğan G., Göncü M., Parlak M.  
IOP Conference Series: Materials Science and Engineering, vol.295, pp.1-13, 2018 (Scopus)
- VI. **Effect of 16% carbamide peroxide bleaching agent on the shear bond strength of orthodontic brackets.**  
Üstdal A., UYSAL T., AKDOĞAN G., KURT G.  
World Journal of orthodontics, vol.10, no.3, pp.211-215, 2009 (Peer-Reviewed Journal)
- VII. **Üç farklı Rezin Esaslı Simanla Dentine Simante Edilen Vita Celay Alumina Seramik Disklerin Makaslama Bağlanma Dirençleri**  
ZORTUK M., KILIÇ K., Bolpaça P., AKDOĞAN G.  
Selçuk Üniversitesi Diş Hekimliği Fakültesi, vol.17, no.2, pp.93-97, 2008 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **In Orthotic Soles to be Used to Eliminate Leg Length Differences Overview of the Use of Polymeric Materials**

Koca S., Akdoğan G.

MSNG 2023, Kayseri, Turkey, 7 - 09 September 2023, pp.102

- II. **Recent developments in stent production and stent applications in powder metallurgy**  
Uzun F. G., Akdoğan G.  
MSNG 2023, Kayseri, Turkey, 7 - 09 September 2023, pp.57
- III. **THE COMPARISON OF THE CANCER RISK AFTER USING THE METAL-ON-METAL HIP PROSTHESIS AND ITS ALTERNATIVES**  
Zengin Ü., Akdoğan G.  
5. Uluslararası İstanbul Modern Bilimsel Araştırmalar Kongresi , İstanbul, Turkey, 9 - 11 July 2023, pp.262
- IV. **Investigation of Free and Electrochemical Corrosion Behaviour of Copper Intrauterine Devices in Simulated Uterine Fluid**  
Akdoğan G., Parlak M.  
3rd INTERNATIONAL CONFERENCE ON TRIBOLOGY: TURKEYTRIB'20, İstanbul, Turkey, 17 - 19 December 2020, pp.11
- V. **Damar İçi Stentlerde Malzeme Seçiminin ve Tasarımının Restenoz ve Diğer Stent Kaynaklı Problemlere Etkileri, Stentlerin Ekonomideki Yeri (Bir Genel Derleme)**  
Akdoğan G., İstanbullu Ö. B.  
ARACONF 2020, Kayseri, Turkey, 5 - 07 March 2020, pp.78
- VI. **YAPAY KALP KAPAKÇIKLARINDAKİ MEVCUT DURUM VE GELECEKTEKİ BEKLENTİLER**  
Akdoğan G., Erdoğan M.  
ARACONF 2020, Kayseri, Turkey, 5 - 07 March 2020, pp.75
- VII. **The Latest Generation of Vascular Stent Designs and Past/Future Technological Trends, ISBN: 978-605-68882-2-9**  
AKDOĞAN G., İSTANBULLU Ö. B.  
II. International Congress on New Trends in Science, Engineering and Technology, Roma, Italy, 4 - 06 September 2018, pp.8-10
- VIII. **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
- IX. **Recent Trends in Sterilization Methods of Biopolymer Biomaterials**  
AKDOĞAN G., GÖNCÜ M.  
International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018, pp.136
- X. **Investigation of Penetration Behaviors of Disposable Medical Needles**  
AKDOĞAN G., ALTUĞ H.  
International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018, pp.135
- XI. **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
- XII. **Recent Studies in Bioceramic Implants**  
AKDOĞAN G.  
IMSEC 2017, 2nd International Mediterranean Science And Engineering Congress, Adana, Turkey, 25 - 27 October 2017, pp.1221
- XIII. **Implant Biocorrosion Problems in Human Body**  
AKDOĞAN G.  
IMSEC 2017, 2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017, pp.2223
- XIV. **Biotribology of Cartilage Wear in Knee and Hip Joints- Review of Recent Developments**  
AKDOĞAN G., GONCÜ M., PARLAK M.  
Balkan TRib'17 9'th International Conference on Tribology, Nevşehir, Turkey, 13 - 15 September 2017, pp.105
- XV. **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

- XVI. **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
- XVII. **Assessment of Safety Issues in MRI Monitoring of Patients with Metallic Implant**  
AKDOĞAN G., İSTANBULLU Ö. B.  
IWBBIO 2017 International Work-Conference on Bioinformatics and Biomedical Engineering, Granada, Spain, 26 - 28 April 2017, pp.212-216
- XVIII. **Bakırlı Rahim İçi Aracın Simule Rahim Sıvısına Etkileri**  
AKDOĞAN G., PARLAK M.  
XIV. Uluslararası Korozyon Sempozyumu, Bayburt, Turkey, 5 - 07 October 2016, pp.109
- XIX. **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
- XX. **Diz Artroplastisinde Malzemelerden Kaynaklanan Biyouyumluluk Problemleri**  
AKDOĞAN G., GÜNEY A.  
BİYOMUT 2010, 15. Biyomedikal Mühendisleri Ulusal Toplantısı, Antalya, Turkey, 21 - 24 April 2010, pp.25-30
- XXI. **Problems of biocompatibility from materials in knee arthroplasty**  
AKDOĞAN G., GÜNEY A.  
2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, 21 - 24 April 2010
- XXII. **Üç Farklı Materyalle Doldurulmuş Endodontik Tedavi Görmüş Köklerin Kırılma Dirençlerinin in Vitro İncelenmesi**  
SAĞSEN B., Kahraman Y., AKDOĞAN G.  
Ege Üniversitesi Diş Hekimliği Fakültesi Uluslararası Diş Hekimliği Kongresi, İzmir, Turkey, 29 September - 01 October 2005, pp.20-25
- XXIII. **Toz Metalürjisinin Biyomalzemelerin Gelişimindeki Katkısı**  
Akdoğan G., Sarıtaş S.  
3. Uluslararası Toz Metalurji Konferansı, Ankara, Turkey, 4 - 08 September 2002, pp.25-30
- XXIV. **"Ti-6Al-4V" Alaşımının Biyokorozyon ve Biyouyumluluk Özelliklerinin İyileştirilmesi**  
Akdoğan G., Sarıtaş S., Koç T.  
BİYOMUT'99, 3. Biyomedikal Mühendisleri Ulusal Toplantısı, Kayseri, Turkey, 27 - 29 October 1999, pp.20-25
- XXV. **Ortopedide Kullanılan Biyomalzemeler ve Özellikleri**  
Akdoğan G., Sarıtaş S., Koç T.  
BİYOMUT'99, 3. Biyomedikal Mühendisleri Ulusal Toplantısı, Kayseri, Turkey, 27 - 29 October 1999, pp.25-30

## Supported Projects

AKDOĞAN G., İSTANBULLU Ö. B., Project Supported by Higher Education Institutions, Biyomalzeme Yüzey Modifikasyonunun Stent Kaynaklı Damar Yolu Tıkanıklığına Etkisi, 2019 - 2022

AKDOĞAN G., PARLAK M., Project Supported by Higher Education Institutions, BAKIRLI RAHİM İÇİ ARACIN SİMULE RAHİM SIVISINA ETKİLERİ, 2018 - 2021

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

AKDOĞAN G., EU Framework Program Project, MESOG- Mesleki Eğitim Sosyal Ortaklıkları Geliştirme Projesi, 2005 - 2006

AKDOĞAN G., Project Supported by Other Official Institutions, MYO Program Geliştirme / Makine İhtisas Komisyonu, 2001 - 2002

## **Metrics**

Publication: 41

Citation (WoS): 73

Citation (Scopus): 95

H-Index (WoS): 3

H-Index (Scopus): 4