

## 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., Yilmaz 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 Graftlenmesi: 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 Triboro-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 Bağlanması Dirençleri**  
 ZORTUK M., KILIÇ K., Bolpaşa 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., GÖNCÜ 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 Sivisine 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 Biyoyumluluk 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., Saritaş S.  
3. Uluslararası Toz Metalurji Konferansı, Ankara, Turkey, 4 - 08 September 2002, pp.25-30
- XXIV. "Ti-6Al-4V" Alaşımının Biyokorozyon ve Biyoyumluluk Özelliklerinin İyileştirilmesi  
Akdoğan G., Saritaş 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., Saritaş 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 Tkankılığına 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 Ortaklıklar 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