

## **Personal Information**

**Email:** tokan@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/tokan>

## **International Researcher IDs**

ORCID: 0000-0002-9913-0803

Publons / Web Of Science ResearcherID: ABB-3196-2021

ScopusID: 57203873724

## **Biography**

Tayfun Okan received his Ph.D. degree in Electrical and Electronics Engineering from [Gazi University](#) in 2018. He was with [University of Turkish Aeronautical Association](#) (Ankara), Electrical and Electronics Engineering Department, between 2012 and 2021, as a lecturer (2012-2018) and assistant professor (2018-2021). He then joined the Department of Electrical and Electronics Engineering of [Gazi University](#) in 2021.

Tayfun has published studies in different journals, and has presented research outcomes in several conferences. His research interests lie in the fields including:

- I. Electromagnetics, microwave and antenna engineering (design, development, optimization, analysis, manufacturing and measurement)
- II. Sub-6 GHz and mm-wave antenna technologies (array, MIMO antenna structures) for 5G wireless communication systems
- III. Waveguides, impedance matching, TE-TM-TEM waves, transmission lines
- IV. Near field/far field antenna radiation pattern calculations, radar cross section calculation algorithms
- V. Filter design
- VI. In-body antenna applications for biotelemetry applications (by forming mimicking gels)
- VII. Computational electromagnetic, high frequency techniques (PO, GO, GTD, SBR, MLFMA)
- VIII. Metamaterial and metasurface-based devices
- IX. Graphene applications in terahertz band

## **Education Information**

Doctorate, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey 2013 - 2018

Postgraduate, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey 2009 - 2012

Undergraduate, Baskent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2005 - 2009

## **Research Areas**

Electromagnetic

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

- I. **28/38 GHz dual-band MIMO antenna with wideband and high gain properties for 5G applications**  
Cunera K., AKÇAM N., Okan T., Arican G. O.  
AEU - International Journal of Electronics and Communications, vol.162, 2023 (SCI-Expanded)
- II. **High efficiency unslotted ultra-wideband microstrip antenna for sub-terahertz short range wireless communication systems**  
Okan T.  
OPTIK, vol.242, 2021 (SCI-Expanded)
- III. **A Wideband Conductor Backed Coplanar Waveguide Fed Implantable Antenna Operable in Different Tissues for Biotelemetry Applications**  
OKAN T.  
Radioengineering, vol.30, no.2, pp.335-341, 2021 (SCI-Expanded)
- IV. **Wideband low cost FR4 epoxy based antenna with H-shaped slot for V-band applications**  
Okan T., AKÇAM N.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.31, no.2, 2021 (SCI-Expanded)
- V. **Performance analysis of concatenated BCH and convolutional coded OFDM system**  
Yavasoglu O., AKÇAM N., Okan T.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.107, no.10, pp.1574-1587, 2020 (SCI-Expanded)
- VI. **Design and analysis of a quad-band substrate-integrated-waveguide cavity backed slot antenna for 5G applications**  
Okan T.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.30, no.7, 2020 (SCI-Expanded)
- VII. **A compact octagonal-ring monopole antenna for super wideband applications**  
Okan T.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.3, pp.1237-1244, 2020 (SCI-Expanded)
- VIII. **Analysis of Antennas around NURBS Surfaces by Using a Hybrid Method**  
Okan T., AKÇAM N.  
RADIOENGINEERING, vol.27, no.3, pp.703-710, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design and Fabrication of Compact Microstrip Low-pass Filter with Thin Film Technique for Wideband Applications**  
Tüzün R., Akçam N., Okan T.  
GUJS, vol.35, no.2, pp.558-565, 2022 (ESCI)
- II. **Compact Power-Symbol Shaped Microstrip Antenna for Healthcare Monitoring Systems Sağlık Hizmetleri İzleme Sistemleri için Kompakt Güç Sembolü Şekli Mikroişerit Anten**  
Kis G. E., OKAN T.  
El-Cezeri Journal of Science and Engineering, vol.9, no.1, pp.232-240, 2022 (Scopus)
- III. **High Isolation Wideband Multiple-Input Multiple-Output Antennas for Millimeter Wave Applications**  
Okan T.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.16, no.4, pp.355-360, 2020 (Peer-Reviewed Journal)
- IV. **Design, Fabrication and Performance Analysis of TTD Structures for S-band Active Phased Array RF Beamforming Networks**  
Hastürk A., Akçam N., Okan T.  
Manas Journal of Engineering, vol.7, no.2, pp.94-98, 2019 (Peer-Reviewed Journal)
- V. **Scattering Analysis of Antenna by Using Ludwig Based Hybrid Method**  
Okan T., Akçam N.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.4, pp.1156-1164, 2018 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Bandwidth and Gain Enhancement using FSS on CPW-fed Rectangular Patch Antenna for 5G mm-Wave Applications**  
HABERGÖTÜREN ATEŞ S., AKÇAM N., OKAN T.  
2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, 9 - 11 June 2022
- II. **Design and Analysis of an In-body Antenna for Medical Applications at 2.45 GHz**  
Kandemir H. G., Okan T.  
ISPEC 10th International Conference on Engineering and Natural Sciences, Siirt, Turkey, 16 - 18 May 2021, pp.318-326
- III. **An Eye Shaped Patch Antenna Operable at Sub-6 GHz Frequency Bands for Fifth Generation Wireless Communication Systems**  
Okan T.  
International Conference on Engineering Technologies (ICENTE), Konya, Turkey, 19 - 21 November 2020, pp.136-139
- IV. **Performance Enhancement of Crescent Patch Antenna with Rectangular Slots and Inset Fed for 5G Applications**  
Cuneray K., Akçam N., Okan T.  
2nd IEEE Global Power, Energy and Communication Conference, GPECOM 2020, Virtual, Izmir, Turkey, 20 - 23 October 2020, pp.318-321
- V. **Wearable Textile Slot Antenna for C-Band Wireless Applications**  
Okan T.  
9th International Conference on Advanced Technologies (ICAT), İstanbul, Turkey, 10 - 12 August 2020, pp.58-59
- VI. **Emotion Recognition from Speech by Using GMM-SVM and MFCC Algorithms**  
Okan T.  
II. International Scientific and Vocational Studies Congress – Engineering and Natural Sciences, Nevşehir, Turkey, 5 - 08 July 2018, pp.1
- VII. **Performance Improvement and Comparison of Multipath AWGN Channel by Using OFDM Systems**  
Yavaşoğlu O., Akçam N., Okan T.  
II. International Scientific and Vocational Studies Congress – Engineering and Natural Sciences, Nevşehir, Turkey, 5 - 08 July 2018, pp.1
- VIII. **Energy Efficiency In The Transmission And Distribution Of Electric Energy**  
Okan T.  
6th International Symposium on Energy Challenges & Mechanics (ISECM), Inverness, United Kingdom, 14 - 18 August 2016, pp.1
- IX. **Fiziksel Optik Yöntemi Kullanılarak Basit ve Karmaşık Şekilli Nesnelerin Radar Kesit Alanı Hesaplaması**  
Okan T., Akçam N.  
İlk Bildiriler Konferansı, Ankara, Turkey, 29 - 30 June 2012, pp.40

## Metrics

Publication: 23

Citation (WoS): 28

Citation (Scopus): 51

H-Index (WoS): 4

H-Index (Scopus): 4