Dr.Öğr.Üyesi TAYFUN OKAN

Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: ABB-3196-2021
ScopusID: 57203873724

Biyografi

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

Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Türkiye 2013 - 2018
Yüksek Lisans, Gazi Üniversitesi, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Türkiye 2009 - 2012
Lisans, Başkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 2005 - 2009

Araştırma Alanları

Elektromanyetik

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **28/38 GHz dual-band MIMO antenna with wideband and high gain properties for 5G applications**
Cuneray K., AKÇAM N., Okan T., Arican G. O.
AEU - International Journal of Electronics and Communications, cilt.162, 2023 (SCI-Expanded)

II. **High efficiency unslotted ultra-wideband microstrip antenna for sub-terahertz short range wireless communication systems**
Okan T.
OPTIK, cilt.242, 2021 (SCI-Expanded)

III. **A Wideband Conductor Backed Coplanar Waveguide Fed Implantable Antenna Operable in Different Tissues for Biotelemetry Applications**
OKAN T.
Radioengineering, cilt.30, sa.2, ss.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, cilt.31, sa.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, cilt.107, sa.10, ss.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, cilt.30, sa.7, 2020 (SCI-Expanded)

VII. **A compact octagonal-ring monopole antenna for super wideband applications**
Okan T.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, cilt.62, sa.3, ss.1237-1244, 2020 (SCI-Expanded)

VIII. **Analysis of Antennas around NURBS Surfaces by Using a Hybrid Method**
Okan T., AKÇAM N.
RADIOENGINEERING, cilt.27, sa.3, ss.703-710, 2018 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Design and Fabrication of Compact Microstrip Low-pass Filter with Thin Film Technique for Wideband Applications**
Tüzün R., Akçam N., Okan T.
GUJS, cilt.35, sa.2, ss.558-565, 2022 (ESCI)

II. **Compact Power-Symbol Shaped Microstrip Antenna for Healthcare Monitoring Systems Sağlık Hizmetleri İzleme Sistemleri için Kompakt Güç Sembolü Şekilli Mikroşerit Anten**
Kis G. E., OKAN T.
El-Cezeri Journal of Science and Engineering, cilt.9, sa.1, ss.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, cilt.16, sa.4, ss.355-360, 2020 (Hakemli Dergi)

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, cilt.7, sa.2, ss.94-98, 2019 (Hakemli Dergi)

V. **Scattering Analysis of Antenna by Using Ludwig Based Hybrid Method**
Okan T., Akçam N.
GAZI UNIVERSITY JOURNAL OF SCIENCE, cilt.31, sa.4, ss.1156-1164, 2018 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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, Türkiye, 9 - 11 Haziran 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, Türkiye, 16 - 18 Mayıs 2021, ss.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, Türkiye, 19 - 21 Kasım 2020, ss.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, Türkiye, 20 - 23 Ekim 2020, ss.318-321

V. **Wearable Textile Slot Antenna for C-Band Wireless Applications**
Okan T.
9th International Conference on Advanced Technologies (ICAT), İstanbul, Türkiye, 10 - 12 Ağustos 2020, ss.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, Türkiye, 5 - 08 Temmuz 2018, ss.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, Türkiye, 5 - 08 Temmuz 2018, ss.1

VIII. **Energy Efficiency In The Transmission And Distribution Of Electric Energy**
Okan T.
6th International Symposium on Energy Challenges & Mechanics (ISECM), Inverness, Birleşik Krallık, 14 - 18 Ağustos 2016, ss.1

IX. **Fiziksel Optik Yöntemi Kullanılarak Basit ve Karmaşık Şekilli Nesnelerin Radar Kesit Alanı Hesaplaması**
Okan T., Akçam N.
İlk Bildiriler Konferansı, Ankara, Türkiye, 29 - 30 Haziran 2012, ss.40

Metrikler

Yayın: 23
Atıf (WoS): 28
Atıf (Scopus): 51
H-İndeks (WoS): 4
H-İndeks (Scopus): 4